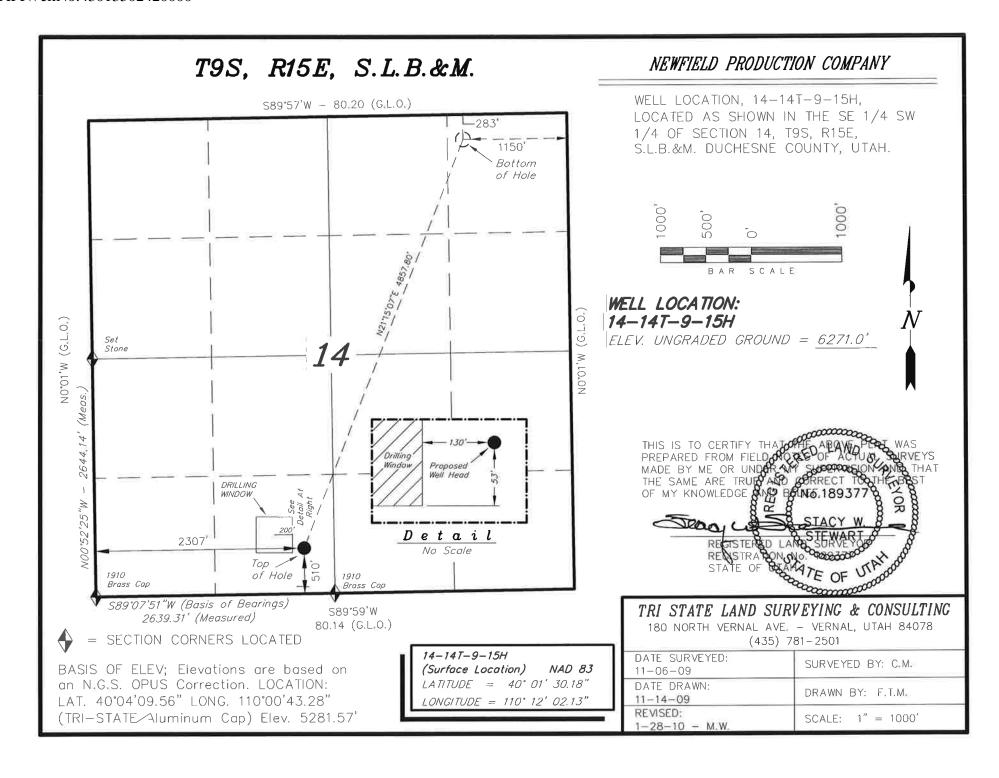
| | | DEPARTMENT OF | TE OF UTAH IF NATURAL RES OIL, GAS AND N | | | | FORI | | | |
|--|------------------------|--|--|--------------|-----------------------------|---|------------------------------|------------|--|--|
| APPLI | CATION FOR F | PERMIT TO DRILL | | | | 1. WELL NAME and Greater Mo | NUMBER nument Butte 14-14 | T-9-15H | | |
| 2. TYPE OF WORK DRILL NEW WELL (| REENTER P&A | WELL (DEEPEN) | WELL (| | | 3. FIELD OR WILDO | CAT MONUMENT BUTTE | | | |
| 4. TYPE OF WELL | | d Methane Well: NO | | | | 5. UNIT or COMMUI | NITIZATION AGREE | EMENT NAME | | |
| 6. NAME OF OPERATOR | WFIELD PRODUCT | | | | | 7. OPERATOR PHON | | | | |
| 8. ADDRESS OF OPERATOR | 3 Box 3630 , My | ton, UT, 84052 | | | | 9. OPERATOR E-MA | IL rozier@newfield.com | | | |
| 10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) | | 11. MINERAL OWNERS | | =a | _ | 12. SURFACE OWNERSHIP | | | | |
| UTU-68548 13. NAME OF SURFACE OWNER (if box 12 | | FEDERAL (INDIA | N (STATE (| FEE (| 4 | FEDERAL INDIAN STATE FEE 14. SURFACE OWNER PHONE (if box 12 = 'fee') | | | | |
| • | | 16. SURFACE OWNER E-MAIL (if box 12 = 'fee') | | | | | | | | |
| 15. ADDRESS OF SURFACE OWNER (if box | | | | | | | ER E-MAIL (II DOX 1 | .z = ree) | | |
| 17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') | | 18. INTEND TO COMMI MULTIPLE FORMATION | | | _ | 19. SLANT | _ | | | |
| | nmingling Applicat | ion) NO 🗓 | | VERTICAL DIR | RECTIONAL (HO | ORIZONTAL 📵 | | | | |
| 20. LOCATION OF WELL | FOO | TAGES | QTR-QTR | SECTI | ON | TOWNSHIP | RANGE | MERIDIAN | | |
| LOCATION AT SURFACE | 510 FSL | 2307 FWL | SESW | 14 | | 9.0 S | 15.0 E | S | | |
| Top of Uppermost Producing Zone | 510 FSL | 2307 FWL | SESW | 14 | | 9.0 S | 15.0 E | S | | |
| At Total Depth | 283 FNL | . 1150 FEL | NENE | 14 | | 9.0 S | 15.0 E | S | | |
| 21. COUNTY DUCHESNE | | 22. DISTANCE TO NEA | AREST LEASE LIN 283 | E (Feet) | | 23. NUMBER OF AC | RES IN DRILLING 0 320 | JNIT | | |
| | | 25. DISTANCE TO NEA (Applied For Drilling o | | AME POOL | | 26. PROPOSED DEPTH MD: 10811 TVD: 6015 | | | | |
| 27. ELEVATION - GROUND LEVEL 6271 | | 28. BOND NUMBER | WYB000493 | | | 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-7478 | | | | |
| | | ATT | ACHMENTS | | | | | | | |
| VERIFY THE FOLLOWING | ARE ATTACHE | D IN ACCORDANCE | WITH THE UT | TAH OIL A | AND G | AS CONSERVATI | ON GENERAL RU | ILES | | |
| ▼ WELL PLAT OR MAP PREPARED BY | LICENSED SURV | YEYOR OR ENGINEER | № сом | PLETE DRI | LLING | PLAN | | | | |
| AFFIDAVIT OF STATUS OF SURFACE | OWNER AGREE | MENT (IF FEE SURFAC | CE) FORM | 1 5. IF OPE | RATOR | R IS OTHER THAN TI | HE LEASE OWNER | | | |
| DIRECTIONAL SURVEY PLAN (IF DID DRILLED) | № торо | OGRAPHICA | AL MAF | • | | | | | | |
| NAME Mandie Crozier | TITLE Regulatory Tec | ch | | PHON | NE 435 646-4825 | | | | | |
| SIGNATURE | DATE 01/29/2010 | | | EMAI | L mcrozier@newfield. | com | | | | |
| API NUMBER ASSIGNED 43013502420000 | | APPROVAL | | | B | acgill | | | | |
| | | I | | | Pe | ermit Manager | | | | |

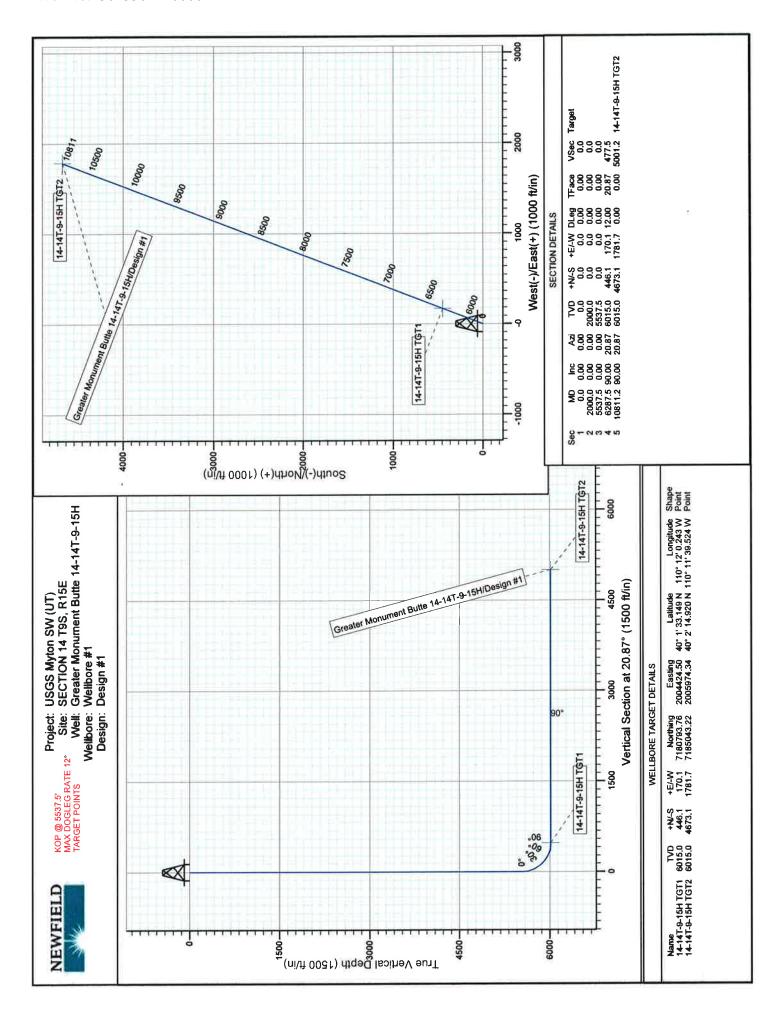
API Well No: 43013502420000 Received: 1/29/2010

| | Proposed Hole, Casing, and Cement | | | | | | | | | | |
|--------|-----------------------------------|-------------|--------|-------|---|--|--|--|--|--|--|
| String | Hole Size | Bottom (MD) | | | | | | | | | |
| Prod | 7.875 | 5.5 | 0 | 10811 | | | | | | | |
| Pipe | Grade | Length | Weight | | | | | | | | |
| | Grade J-55 LT&C | 6015 | 15.5 | | П | | | | | | |
| | | | | | | | | | | | |

API Well No: 43013502420000 Received: 1/29/2010

| | Proposed Hole, Casing, and Cement | | | | | | | | | | |
|--------|-----------------------------------|-------------|--------|-----|--|---|--|--|--|--|--|
| String | Hole Size | Bottom (MD) | | | | | | | | | |
| Surf | 12.25 | 8.625 | 0 | 300 | | | | | | | |
| Pipe | Grade | Length | Weight | | | | | | | | |
| | Grade J-55 ST&C | 300 | 24.0 | | | Г | | | | | |
| | | | | | | | | | | | |







NEWFIELD EXPLORATION

USGS Myton SW (UT) SECTION 14 T9S, R15E Greater Monument Butte 14-14T-9-15H

Wellbore #1

Plan: Design #1

Standard Planning Report

25 January, 2010





Planning Report



Database: Company: Project: Site:

EDM 2003.21 Single User Db **NEWFIELD EXPLORATION** USGS Myton SW (UT)

SECTION 14 T9S, R15E

Well: Wellbore: Design:

Greater Monument Butte 14-14T-9-15H

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Greater Monument Butte 14-14T-9-15H 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG) 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG)

True

Minimum Curvature

Project

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System: Geo Datum:

Map Zone:

US State Plane 1983

Utah Central Zone

North American Datum 1983

System Datum:

Mean Sea Level

Using geodetic scale factor

Site

SECTION 14 T9S, R15E, SEC 14 T9S, R15E

Site Position:

Lat/Long

Northing: Easting:

7,182,599.00ft

Latitude:

40° 1' 51.065 N

From:

Slot Radius:

2,003,890.00ft

Longitude:

110° 12' 6.777 W

Position Uncertainty:

0.0 ft

Grid Convergence:

0.83°

Well

Greater Monument Butte 14-14T-9-15H, SHL LAT: 40 01 28.74, LONG: -110 12 02.43

Well Position

+N/-S +E/-W

Wellbore #1

Design #1

-2,259.1 ft 338.2 ft

Northing: Easting:

7.180.345.24 ft 2,004,260.92 ft

Latitude: Longitude:

40° 1' 28.740 N 110° 12' 2.430 W

Position Uncertainty

0.0 ft

Wellhead Elevation:

6.284.2 ft

Ground Level:

6,272.2ft

Magnetics

Model Name

IGRF200510

Sample Date

2009/12/07

Declination 11.54

Dip Angle 65.80 Field Strength (nT)

52,415

Design

Wellbore

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (ft)

0.0

+N/-S (ft) 0.0

+E/-W (ft) 0.0

Direction (°) 20.87

Plan Sections Dogleg Build Turn Vertical Measured Inclination +N/-S +E/-W Rate Rate Rate TFO Depth **Azimuth** Depth (°/100ft) (°/100ft) (°/100ft) **Target** (°) (ft) (ft) (°) (ft) (ft) (°) 0.00 0.0 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 0.00 0.00 2,000.0 0.0 0.0 2,000.0 0.00 0.00 0.0 0.00 0.00 0.00 0.00 5,537.5 0.0 0.00 5,537.5 20.87 0.00 90.00 20.87 6,015.0 446.1 170.1 12.00 12.00 6,287.5 0.00 14-14T-9-15H TGT: 0.00 0.00 4,673.1 1,781.7 0.00 10,811.2 90.00 20.87 6,015.0



Planning Report



Database: Company: Project: Site: EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) SECTION 14 T9S, R15E

Greater Monument Butte 14-14T-9-15H

Well: Greater Mor Wellbore: Wellbore #1 Design: Design #1 Local Co-ordinate Reference: TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well Greater Monument Butte 14-14T-9-15H 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG) 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG)

True Minimum Curvature

Design #1 **Planned Survey** Build Turn Vertical Dogleg Vertical Measured Rate Rate Section Rate Depth +N/-S +E/-W Depth Inclination **Azimuth** (°/100ft) (°/100ft) (°/100ft) (ft) (ft) (ft) (ft) (ft) (°) (°) 0.00 0.00 0.0 0.00 0.0 0.0 0.00 0.0 0.00 0.0 0.00 0.00 0.0 0.00 0.0 0.0 0.00 0.00 100.0 100.0 0.00 0.0 0.00 0.00 0.0 0.00 200.0 0.0 0.00 200.0 0.00 0.00 0.00 0.00 300.0 0.0 0.0 0.0 0.00 300.0 0.000.00 0.0 0.0 0.00 0.00 400.0 0.0 400.0 0.00 0.00 0.00 0.00 0.0 0.0 500.0 0.0 0.00 0.00 500.0 0.00 0.00 0.00 0.0 0.0 600.0 0.0 0.00 600.0 0.00 0.00 0.00 0.0 0.00 0.0 0.0 700.0 0.00 0.00 700.0 0.00 0.00 0.00 0.0 0:0 0.0 0.00 0.008 800.0 0.00 0.00 0.0 0.00 0.00 0.00 0.00 900.0 0.0 0.0 900.0 0.00 0.0 0.0 0.00 0.00 0.0 1,000.0 0.00 0.00 1,000.0 0.00 0.00 0.00 0.0 1,100.0 1,100.0 0.0 0.0 0.00 0.00 0.00 0.00 0.00 0.0 0.0 1,200.0 0.0 0.000.00 1,200.0 0.00 0.00 0.0 0.00 1,300.0 0.0 0.0 1,300.0 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.00 0.00 1,400.0 0.0 1,400.0 0.00 0.00 0.00 0.0 0.0 0.0 0.00 1.500.0 1,500.0 0.00 0.000.0 0.0 0.00 0.00 1,600.0 0.0 1,600.0 0.00 0.00 0.00 0.00 0.00 0.0 0.0 1,700.0 0.00 0.00 1,700.0 0.0 0.00 0.00 0.00 0.00 1,800.0 0.0 0.0 0.0 0.00 1,800.0 0.00 0.00 0.0 0.0 0.00 1,900.0 0.0 1,900.0 0.00 0.00 0.00 0.00 0.00 0.0 0.0 2,000.0 0.0 0.00 0.00 2,000.0 0.00 0.00 0.00 0.0 0.0 2,100.0 0.0 2,100.0 0.00 0.000.00 0.0 0.00 0.00 2,200.0 0.0 0.0 0.00 0.00 2.200.0 0.0 0.00 0.00 0.00 0.0 0.00 0.00 2,300.0 0.0 2,300.0 0.00 0.00 0.00 0.0 2,400.0 0.0 0.0 0.00 0.00 2.400.0 0.00 0.00 0.00 0.0 0.0 0.0 0.00 0.00 2,500.0 2.500.0 0.00 0.00 0.0 0.00 2,600.0 0.0 0.0 0.00 0.00 2,600.0 0.00 0.00 0.00 0.0 0.0 2,700.0 0.0 2,700.0 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0 2,800.0 0.00 0.00 2.800.0 0.00 0.00 0.00 0.0 0.0 0.00 0.00 2,900.0 0.0 2,900.0 0.00 0.00 0.00 3.000.0 0.0 0.0 0.0 0.00 0.00 3,000.0 0.00 0.00 0.00 0.0 0.0 3,100.0 0.00 0.00 3,100.0 0.0 0.00 0.00 0.0 0.00 3,200.0 0.0 0.0 0.00 0.00 3.200.0 0.00 0.00 0.00 0.0 0.0 0.0 0.00 3.300.0 0.00 3,300.0 0.00 0.00 0.0 0.00 0.0 0.0 3,400.0 0.00 0.00 3.400.0 0.00 0.00 0.00 0.0 0.0 0.00 3.500.0 0.0 0.00 3,500.0 0.00 0.00 3,600.0 0.0 0.0 0.0 0.00 0.00 3,600.0 0.00 0.00 0.00 0.00 0.0 0.0 0.0 3,700.0 0.00 0.00 3,700.0 0.00 0.00 0.00 0.00.00 0.00 3,800.0 0.0 0.0 3.800.0 0.00 0.00 0.00 0.0 0.0 0.0 0.00 0.00 3,900.0 3.900.0 0.00 0.0 0.0 0.00 0.00 0.0 0.00 4,000.0 4.000.0 0.00 0.00 0.00 0.00 4,100.0 0.0 0.0 0.0 0.00 0.00 4,100.0 0.00 0.00 0.00 0.0 0.0 4,200.0 0.0 0.00 4,200.0 0.00 0.00 0.0 0.0 0.00 0.00 0.00 0.00 4,300.0 0.0 4,300.0 0.0 0.00 0.00 0.00 0.0 4,400.0 0.0 4,400.0 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0 4,500.0 4.500.0 0.00 0.00 0.00 0.00 0.0 0.00 0.00 4,600.0 0.0 0.0 0.00 4 600.0 0.00 0.00 0.00 0.0 0.0 0.0 0.000.00 4,700.0 4.700.0 0.00 0.00 4,800.0 0.0 0.0 0.00 0.0 0.00 4,800.0 0.00 0.00 0.00 0.0 0.00 0.0 0.0 0.00 0.00 4.900.0 4,900.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 5.000.0 0.00 5,000.0 0.00 0.0 0.00 0.00 0.0 0.0 5,100.0 0.00 0.00 5,100.0 0.0 0.00 0.00 0.00 0.0 0.00 5,200.0 0.0 0.00 5.200.0 0.00 0.00 0.00 0.0 5.300.0 0.0 0.0 0.00 0.00 5,300.0



Planning Report



Database: Company: Project: Site:

Well:

EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) SECTION 14 T9S, R15E

Greater Monument Butte 14-14T-9-15H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Greater Monument Butte 14-14T-9-15H 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG) 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG)

True

Minimum Curvature

| ned Survey | | | | | | | | | |
|---------------------------|-----------------|----------------|---------------------------|--------------------|----------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Measured Depth (ft) | inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,400.0 | 0.00 | 0.00 | 5,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,537.5 | 0.00 | 0.00 | 5,537.5 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,550.0 | 1.50 | 20,87 | 5,550.0 | 0.2 | 0.1 | 0.2 | 12.00 | 12.00 | 0.00 |
| 5,575.0 | 4.50 | 20.87 | 5,575.0 | 1.4 | 0.5 | 1.5 | 12.00 12.00 | 12.00 12.00 | 0.00 0.00 |
| 5,600.0 | 7.50 | 20.87 | 5,599.8 | 3.8 | 1.5 | 4.1 | | | |
| 5,625.0 | 10.50 | 20.87 | 5,624.5 | 7.5 | 2.8 | 8.0 | 12.00 | 12.00 | 0.00 0.00 |
| 5,650.0 | 13.50 | 20.87 | 5,649.0 | 12.3 | 4.7 | 13.2 19.7 | 12.00 12.00 | 12.00 12.00 | 0.00 |
| 5,675.0 | 16.50 | 20.87 | 5,673.1 | 18.4 25.6 | 7.0 9.8 | 19.7 27.4 | 12.00 | 12.00 | 0.00 |
| 5,700.0 5,725.0 | 19.50 22.50 | 20.87 20.87 | 5,696.9 5,720.2 | 23.6 33.9 | 12.9 | 36.3 | 12.00 | 12.00 | 0.00 |
| | | | | | | | | | 0.00 |
| 5,750.0 | 25.50 | 20.87 | 5,743.1 | 43.4 | 16.6 | 46.5 | 12.00 | 12.00 12.00 | 0.00 |
| 5,775.0 | 28.50 | 20.87 | 5,765.3 | 54.0 | 20.6 | 57.8 70.3 | 12.00 12.00 | 12.00 | 0.00 |
| 5,800.0 | 31.50 34.50 | 20.87 20.87 | 5,787.0 5,807.9 | 65.7 78.4 | 25.1 29.9 | 70.3 84.0 | 12.00 | 12.00 | 0.00 |
| 5,825.0 5,850.0 | 34.50 37.50 | 20.87 | 5,828.2 | 92.2 | 35.1 | 98.6 | 12.00 | 12.00 | 0.00 |
| | | | | | 40.7 | 114.4 | 12.00 | 12,00 | 0.00 |
| 5,875.0 | 40.50 43.50 | 20.87 20.87 | 5,847.6 5,866.2 | 106.9 122.5 | 46.7 | 131.1 | 12.00 | 12.00 | 0.00 |
| 5,900.0 5,925.0 | 43.50 46.50 | 20.87 | 5,883.9 | 139.0 | 53.0 | 148.8 | 12.00 | 12.00 | 0.00 |
| 5,950.0 | 49.50 | 20.87 | 5,900.6 | 156.4 | 59.6 | 167.3 | 12.00 | 12.00 | 0.00 |
| 5,975.0 | 52.50 | 20.87 | 5,916.3 | 174.5 | 66.5 | 186.8 | 12.00 | 12.00 | 0.00 |
| 6,000.0 | 55.50 | 20.87 | 5,931.0 | 193.4 | 73.7 | 207.0 | 12.00 | 12.00 | 0.00 |
| 6,000.0 | 58.50 | 20.87 | 5.944.6 | 213.0 | 81.2 | 228.0 | 12.00 | 12.00 | 0.00 |
| 6,050.0 | 61.50 | 20.87 | 5,957.1 | 233.2 | 88.9 | 249.6 | 12.00 | 12.00 | 0.00 |
| 6,075.0 | 64.50 | 20.87 | 5,968.5 | 254.0 | 96.9 | 271.9 | 12.00 | 12.00 | 0.00 |
| 6,100.0 | 67.50 | 20.87 | 5,978.6 | 275.4 | 105.0 | 294.7 | 12.00 | 12.00 | 0.00 |
| 6,125.0 | 70.50 | 20.87 | 5,987.6 | 297.2 | 113.3 | 318.1 | 12.00 | 12.00 | 0.00 |
| 6,150.0 | 73.50 | 20.87 | 5,995.3 | 319.4 | 121.8 | 341.8 | 12.00 | 12.00 | 0.00 |
| 6,175.0 | 76.50 | 20.87 | 6,001.8 | 342.0 | 130.4 | 366.0 | 12.00 | 12.00 | 0.00 |
| 6,200.0 | 79.50 | 20.87 | 6,007.0 | 364.8 | 139.1 | 390.4 | 12.00 | 12.00 | 0.00 |
| 6,225.0 | 82.50 | 20.87 | 6,010.9 | 387.9 | 147.9 | 415.1 | 12.00 | 12.00 | 0.00 |
| 6,250.0 | 85.50 | 20.87 | 6,013.5 | 411.1 | 156.7 | 440.0 | 12.00 | 12.00 | 0.00 |
| 6,275.0 | 88.50 | 20.87 | 6,014.8 | 434.4 | 165.6 | 464.9 | 12.00 | 12.00 | 0.00 |
| 6,287.5 | 90.00 | 20.87 | 6,015.0 | 446.1 | 170.1 | 477.5 | 11.99 | 11.99 | 0.00 |
| 14-14T-9-1 | | | 0.51= 5 | 457.0 | 4745 | 400.0 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 90.00 90.00 | 20.87 20.87 | 6,015.0 6,015.0 | 457.8 551.2 | 174.5 210.2 | 489.9 589.9 | 0,00 0.00 | 0.00 0.00 | 0.00 |
| 6,400.0 | | | | | | | | | |
| 6,500.0 | 90.00 | 20.87 | 6,015.0 | 644.7 | 245.8 | 689.9 | 0.00 | 0.00 0.00 | 0.00 0.00 |
| 6,600.0 | 90.00 | 20.87 | 6,015.0 | 738.1 | 281.4 | 789.9 889.9 | 0.00 0.00 | 0.00 | 0.00 |
| 6,700.0 | 90.00 90.00 | 20.87 20.87 | 6,015.0 6,015.0 | 831.5 925.0 | 317.0 352.7 | 989.9 | 0.00 | 0.00 | 0.00 |
| 6,800.0 6,900.0 | 90.00 | 20.87 | 6,015.0 | 1,018.4 | 388.3 | 1,089.9 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | 0.00 | 0.00 |
| 7,000.0 | 90.00 | 20.87 | 6,015.0 6,015.0 | 1,111.9 1,205.3 | 423.9 459.5 | 1,189.9 1,289.9 | 0.00 0.00 | 0.00 | 0.00 |
| 7,100.0 7,200.0 | 90.00 90.00 | 20.87 20.87 | 6,015.0 | 1,205.3 | 495.2 | 1,289.9 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 90.00 | 20.87 | 6,015.0 | 1,392.2 | 530.8 | 1,489.9 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.00 | 20.87 | 6,015.0 | 1,485.6 | 566.4 | 1,589.9 | 0.00 | 0.00 | 0.00 |
| 7.500.0 | 90.00 | 20.87 | 6,015.0 | 1,579.1 | 602.0 | 1,689.9 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 20.87 | 6,015.0 | 1,672.5 | 637.7 | 1,789.9 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 20.87 | 6,015.0 | 1,765.9 | 673.3 | 1,889.9 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 20.87 | 6,015.0 | 1,859.4 | 708.9 | 1,989.9 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 20.87 | 6,015.0 | 1,952.8 | 744.5 | 2,089.9 | 0.00 | 0.00 | 0.00 |
| | 90.00 | 20.87 | 6,015.0 | 2,046.3 | 780.2 | 2,189.9 | 0.00 | 0.00 | 0.00 |



Planning Report



Database: Company: Project: Site: EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) SECTION 14 T9S, R15E

Greater Monument Butte 14-14T-9-15H

Well: Greater Mor Wellbore: Wellbore #1 Design: Design #1 Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Greater Monument Butte 14-14T-9-15H 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG) 14-14T-9-15H @ 6284.2ft (NEWFIELD RIG)

True Minimum Curvature

| Measured Depth (ft) | Inclination (°) | Azimuth | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|-----------------|---------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 8,100.0 | 90.00 | 20.87 | 6,015.0 | 2,139.7 | 815.8 | 2,289.9 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 20.87 | 6,015.0 | 2,233.1 | 851.4 | 2,389.9 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 20.87 | 6,015.0 | 2,326.6 | 887.0 | 2,489.9 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 20.87 | 6,015.0 | 2,420.0 | 922.7 | 2,589.9 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 20.87 | 6,015.0 | 2,513.4 | 958.3 | 2,689.9 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 20.87 | 6,015.0 | 2,606.9 | 993.9 | 2,789.9 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 20.87 | 6,015.0 | 2,700.3 | 1,029.5 | 2,889.9 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 20.87 | 6,015.0 | 2,793.8 | 1,065.2 | 2,989.9 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 20.87 | 6,015.0 | 2,887.2 | 1,100.8 | 3,089.9 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 20.87 | 6,015.0 | 2,980.6 | 1,136.4 | 3,189.9 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 20.87 | 6,015.0 | 3,074.1 | 1,172.0 | 3,289.9 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 20.87 | 6,015.0 | 3,167.5 | 1,207.7 | 3,389.9 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 20.87 | 6,015.0 | 3,261.0 | 1,243.3 | 3,489.9 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 20.87 | 6,015.0 | 3,354.4 | 1,278.9 | 3,589.9 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 20.87 | 6,015.0 | 3,447.8 | 1,314.5 | 3,689.9 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 20.87 | 6,015.0 | 3,541.3 | 1,350.2 | 3,789.9 | 0.00 | 0.00 | 0.00 |
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| 9,800.0 | 90.00 | 20.87 | 6,015.0 | 3,728.2 | 1,421.4 | 3,989.9 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 20.87 | 6,015.0 | 3,821.6 | 1,457.0 | 4,089.9 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 20.87 | 6,015.0 | 3,915.0 | 1,492.7 | 4,189.9 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 20.87 | 6,015.0 | 4,008.5 | 1,528.3 | 4,289.9 | 0.00 | 0.00 | 0.00 |
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| 10,300.0 | 90.00 | 20.87 | 6,015.0 | 4,195.4 | 1,599.5 | 4,489.9 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 20.87 | 6,015.0 | 4,288.8 | 1,635.2 | 4,589.9 | 0.00 | 0.00 | 0.00 |
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| 10,700.0 | 90.00 | 20.87 | 6,015.0 | 4,569.1 | 1,742.0 | 4,889.9 | 0.00 | 0.00 | 0.00 |
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| 10,811.2 | 90.00 | 20.87 | 6,015.0 | 4,673.1 | 1,781.7 | 5,001.2 | 0.00 | 0.00 | 0.00 |

| Targets | | | | | | | | | |
|--|------------------|----------|-------------|---------------|---------------|------------------|-----------------|-----------------|-------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| 14-14T-9-15H TGT2 - plan hits target - Point | 0.00 | 0.00 | 6,015.0 | 4,673.1 | 1,781.7 | 7,185,043.22 | 2,005,974.34 | 40° 2' 14.920 N | 110° 11' 39.524 W |
| 14-14T-9-15H TGT1 - plan hits target - Point | 0.00 | 0.00 | 6,015.0 | 446.1 | 170.1 | 7,180,793.76 | 2,004,424.50 | 40° 1' 33.149 N | 110° 12' 0.243 W |

NEWFIELD PRODUCTION COMPANY GREATER MONUMENT BUTTE 14-14T-9-15H

SHL: SE/SW SECTION 14, T9S, R15E BHL: NE/NE SECTION 14, T9S, R15E DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,538'. Directional tools will then be used to build to 90° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and 5-1/2" production casing will be run to TD and cemented in place.

1. GEOLOGIC SURFACE FORMATION:

Uinta formation

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Green River 1,555' Target (Basal Carbonate) 6,015'

TD 6,015' TVD / 10,811' MD

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation (Oil) 4,000' – 6,015' TVD

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval Date Sampled Flow Rate Temperature

Hardness pH

Water Classification (State of Utah)

Dissolved Calcium (Ca) (mg/l)

Dissolved Sodium (Na) (mg/l)

Dissolved Magnesium (Mg) (mg/l) Dissolved Bicarbonate (NaHCO₃) (mg/l) Dissolved Sulfate (SO₄) (mg/l) Dissolved Carbonate (CO₃) (mg/l) Dissolved Chloride (Cl) (mg/l) Dissolved Total Solids (TDS) (mg/l)

4. PROPOSED CASING PROGRAM

a. Casing Design

| | Interval | | Weight | | | Pore | MW | Frac Grad | | Design Facto | rs |
|-------------------|----------|------------------------|---------|-------|----------|-----------------|-----------|-----------------|-------|--------------|---------|
| Description | Тор | Btm | (lb/ft) | Grade | Coupling | Press @ Shoe | @ Shoe | @ Shoe | Burst | Collapse | Tension |
| Surface 8-5/8" | 0' | 300' | 24,0 | J-55 | STC | 8.33 | 8.33 | 12.0 | 15,02 | 12,30 | 29.05 |
| Prod 5-1/2" | 0* | 6015' TVD 10811' MD | 15,5 | J-55 | LTC | 8,33 | 8,5 |) (1 | 2.51 | 2.11 | 2,33 |

Assumptions:

- 1) Surface casing MASP = (frac gradient + 1.0 ppg) gas gradient
- 2) Interm casing MASP = frac gradient seawater gradient
- 3) Production casing MASP (production mode) = reservoir pressure gas gradient
- 4) All collapse calculations assume fully evacuated casing = mud weightTD gas gradient
- 5) All tension calculations assume air weight

All casing shall be new.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cement Design

| Job | Fill | Description | Sacks FT ³ | Excess | Weight (ppg) | Yield (ft ³ /sk) |
|---------------------|--------|---|--------------------------|--------|--------------|--------------------------------|
| Surface Casing | 300' | Class G w/ 2% CaCl ₂ , 0.25 lbs/sk Cello Flake | 138 161 | 30% | 15.8 | 1,17 |
| Prod Casing Lead | 4,000' | Prem Lite II w/ 3% KCI, 2% Bentonite (or equivalent cement) | 258 901 | 30% | 11.0 | 3,49 |
| Prod Casing Tail | 6,811 | 50/50 Poz Class G w/ 3% KCl, 2% Bentonite (or equivalent cement) | 1237 1534 | 30% | 14.3 | 1.24 |

A 12-1/4" hole will be drilled for the surface casing. A 7-7/8" hole will be drilled vertically, for the curve, and for the lateral. The 5-1/2" production casing will be set in 7-7/8" hole size.

Actual cement volumes will be calculated from open hole logs, plus 15% excess.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The Vernal BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

The minimum diameter for conductor pipe shall be 13 3/8". The conductor pipe will be cemented back to surface or removed.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

A Form 3160-5, "Sundry Notices and Reports on Wells" shall be filed with the Vernal Office Manager within 30 days after the work is completed. This report must include the following information:

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 2M system.

A 2000 psi WP hydraulic BOP stack consisting of two ram preventers (double or two singles) and a rotating head per **Exhibit C**. This system will be in accordance to the specifications listed in the Standard Operating Procedures for the Greater Monument Butte Green River Development Program.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to BLM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

From surface to 300', an air system will be used. From 300' to TD, a fresh water or brine water system will be utilized. Anticipated maximum mud weight is 9.0 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

8. TESTING, LOGGING AND CORING PROGRAMS:

a. Logging Program:

(the log types run may change at the discretion of the geologist)

FDC/CNL/GR/DIL: TD - 3,200'

CBL: A cement bond log will be run from KOP to the cement top of the production casing. A field copy will be submitted to the Vernal BLM Office.

- b. Cores: As deemed necessary.
- c. **Drill Stem Tests:** No DSTs are planned in the Green River/Wasatch section. It is possible that DST may be required in the Green River Formation.

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

There is no abnormal pressure or temperature expected. Maximum anticipated bottomhole pressure will be approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

a. Drilling Activity

Anticipated Commencement Date: Upon approval of the site specific APD.

Drilling Days: Approximately 10 days.

Completion Days: Approximately 12 - 20 days.

b. Notification of Operations

The Vernal BLM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

<u>Immediate Report</u>: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the appropriate regulations, Onshore Orders, or BLM policy.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given to the BLM before resumption of operations.

Daily drilling and completion reports shall be submitted to the Vernal BLM Office on a weekly basis.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations after the wells are stimulated to run the production tubing.. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the Vernal BLM Office within 60 days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil & Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5(b.4).

Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

2-M SYSTEM

Blowout Prevention Equipment Systems

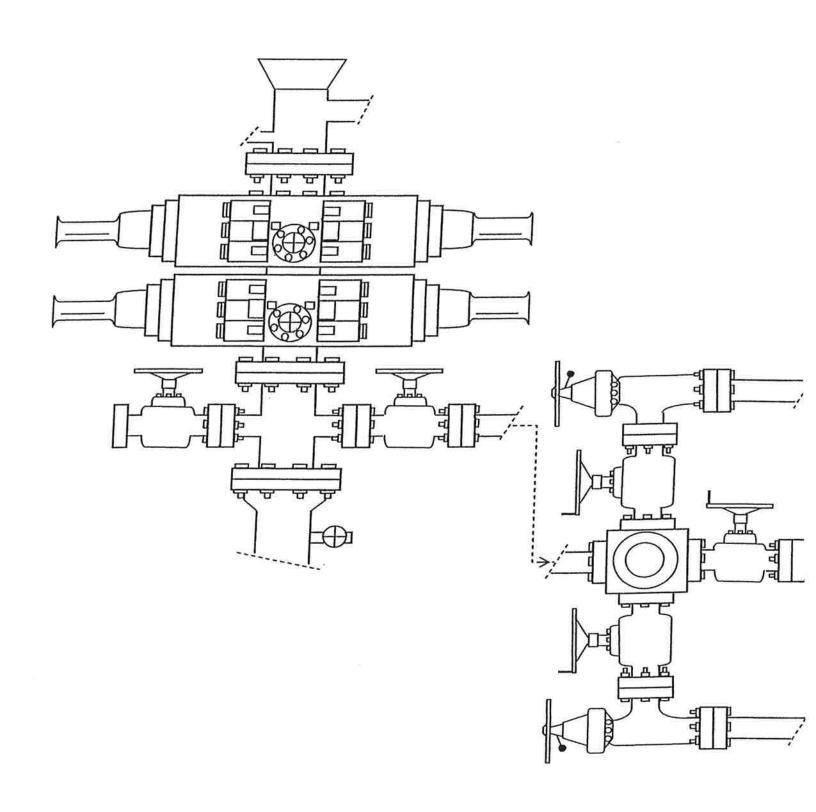
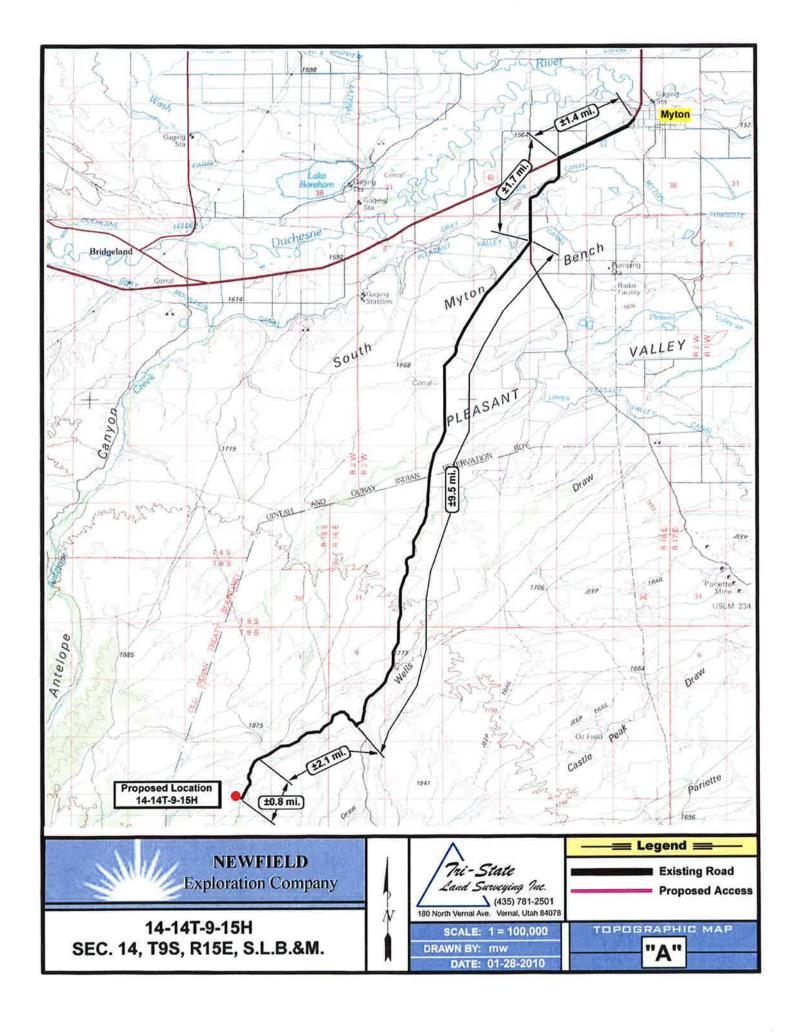
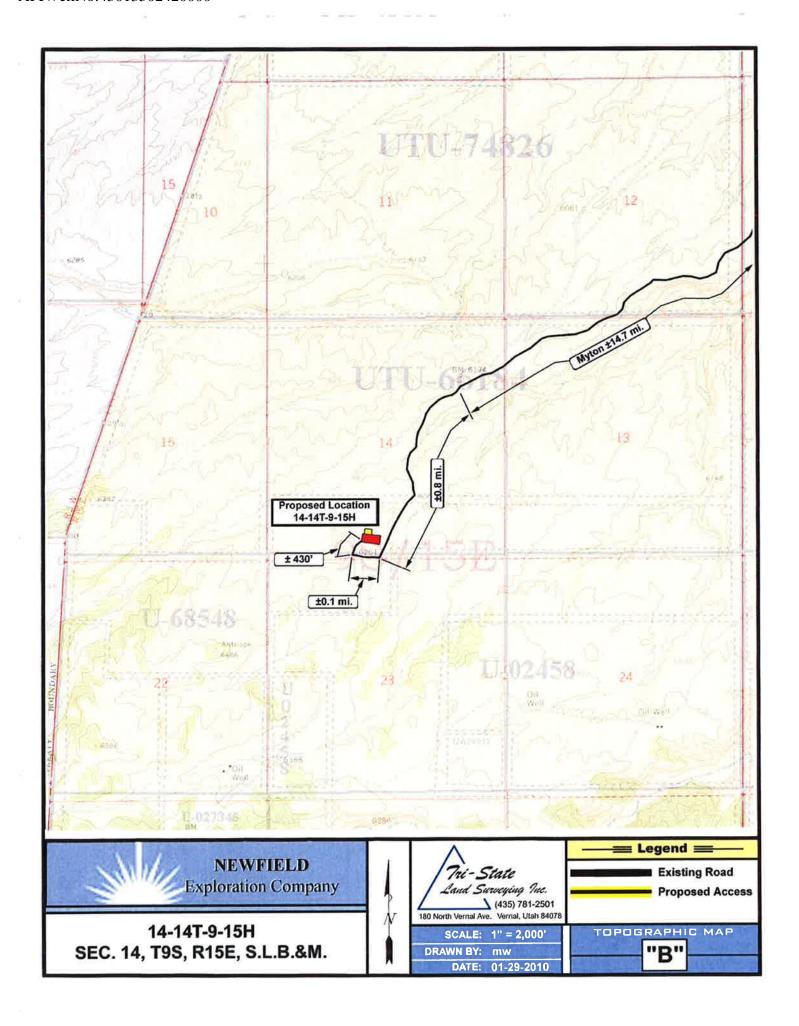
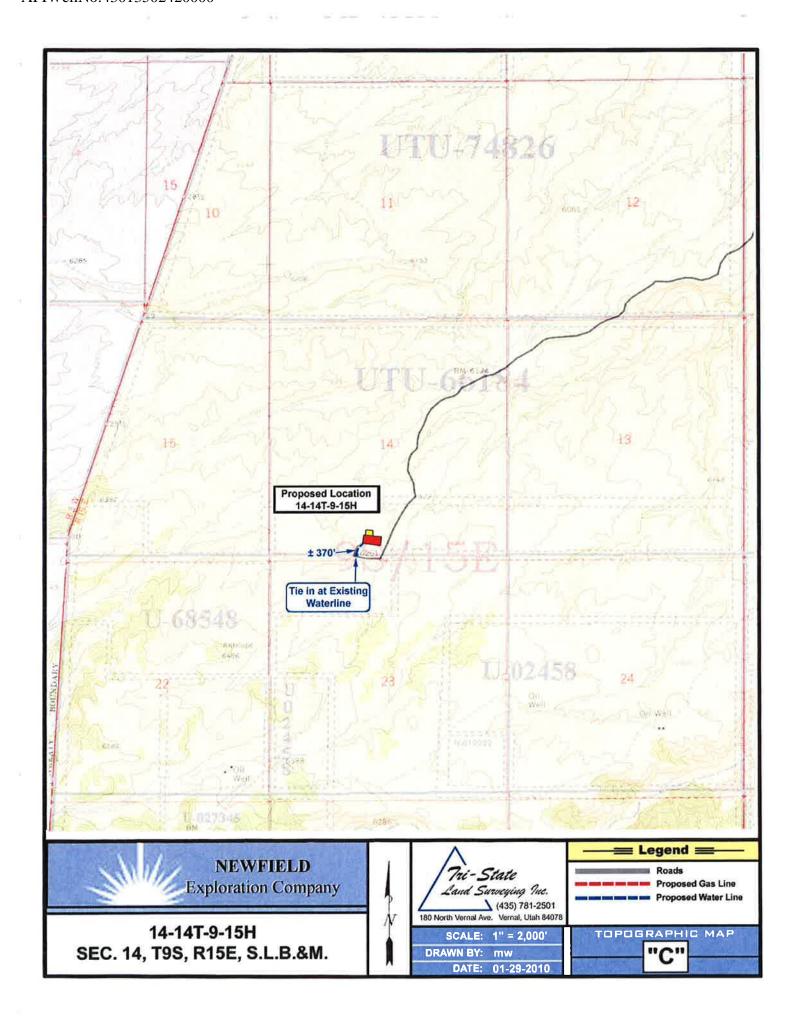


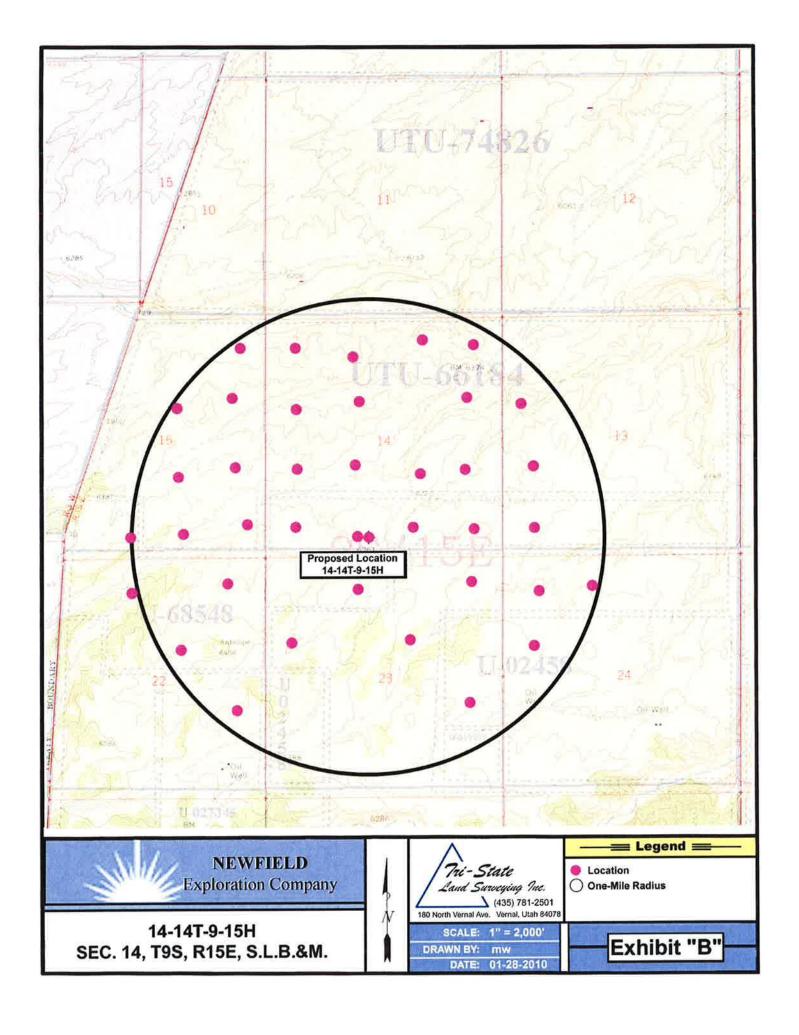
EXHIBIT C







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NEWFIELD PRODUCTION COMPANY GREATER MONUMENT BUTTE 14-14T-9-15H AT SURFACE: SE/SW SECTION 14, T9S, R15E DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Monument Butte 14-14T-9-15H located in the SE 1/4 SW 1/4 Section 14, T9S, R15E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southwesterly – 11.2 miles \pm to it's junction with an existing dirt road to the northwest; proceed northwesterly and then southwesterly – 2.9 miles \pm to it's junction with an existing road to the west; proceed westerly – 0.1 miles \pm to it's junction with an existing road to the north; proceed northeasterly along the access road – 430' \pm to the existing 14-14-9-15 well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. <u>LOCATION OF EXISTING WELLS</u>

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

All permanent surface equipment will be painted Olive Black. Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District Water Right: 43-7478

Neil Moon Pond

Water Right: 43-11787

Maurice Harvey Pond Water Right: 47-1358

Newfield Collector Well

Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

SURFACE OWNERSHIP - Bureau Of Land Management (Proposed location and access roads leading to).

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #01-163, 5/23/02. Paleontological Resource Survey prepared by, Wade E. Miller, 6/7/03. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 370' of disturbed area be granted in Lease UTU-68548 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species

None for the proposed Greater Monument Butte 14-14T-9-15H

Reserve Pit Liner

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

| Squirrell Tail | Elymus Elymoides | 6 lbs/acre |
|---------------------|------------------------|---------------|
| Siberian Wheatgrass | Agropyron Fragile | 2 lbs/acre |
| Gardner Saltbush | Atriplex Gardneri | 1 lbs/acre |
| Shadscale | Atriplex Confertifolia | 1 lbs/acre |
| Fourwing Saltbush | Atriplex Canescens | 1 lbs/acre |
| Scarlet Globemallow | Sphaeralcea Conccinea | 0.20 lbs/acre |
| Forage Kochia | Kochia Prostrata | 0.20 lbs/acre |

Details of the On-Site Inspection

The proposed Greater Monument Butte 14-14T-9-15H was on-sited on 12/16/09. The following were present; Tim Eaton (Newfield Production) and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 20% open.

LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name:

Tim Eaton

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #14-14T-9-15H SE/SW Section 14, Township 9S, Range 15E: Lease UTU-68548 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

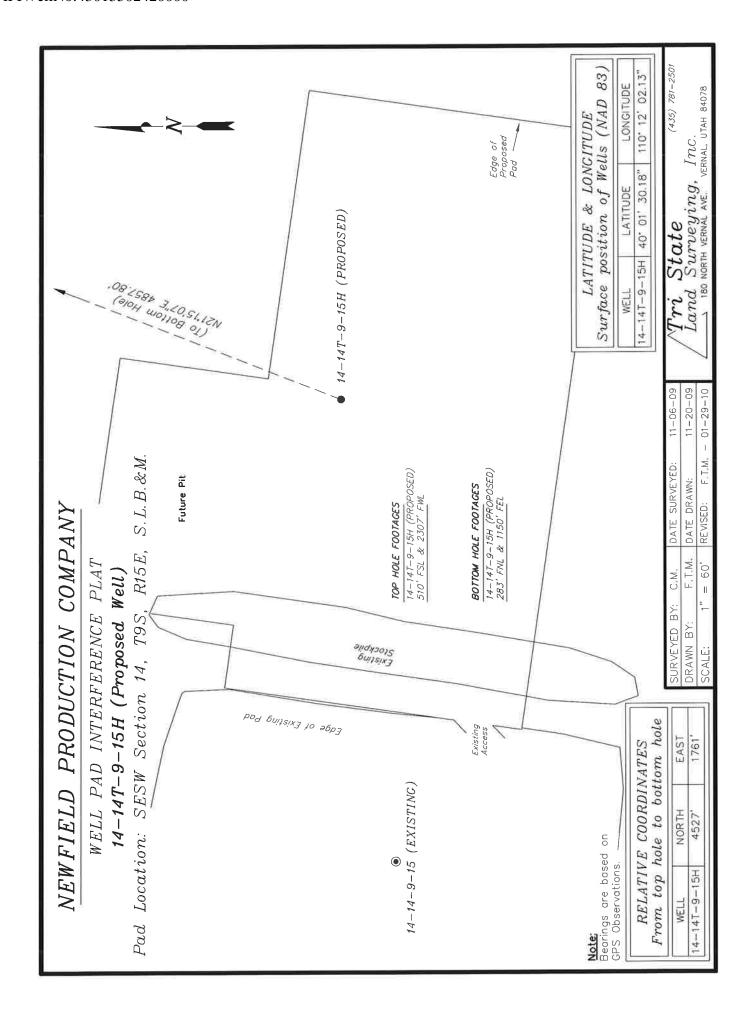
I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

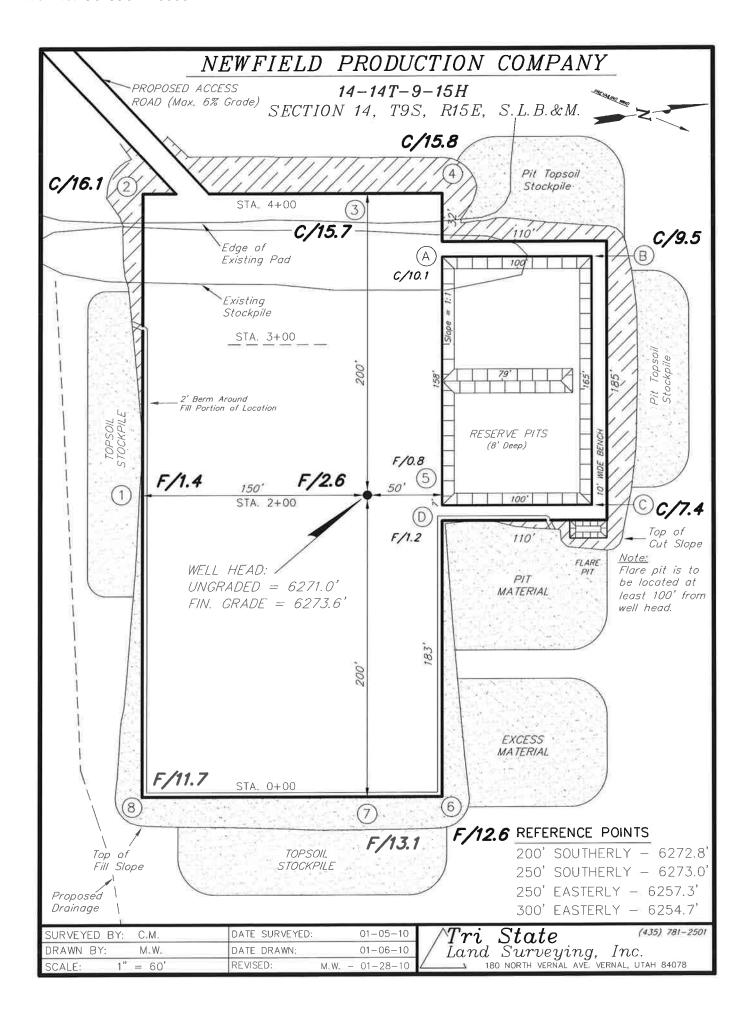
1/28/10 Date

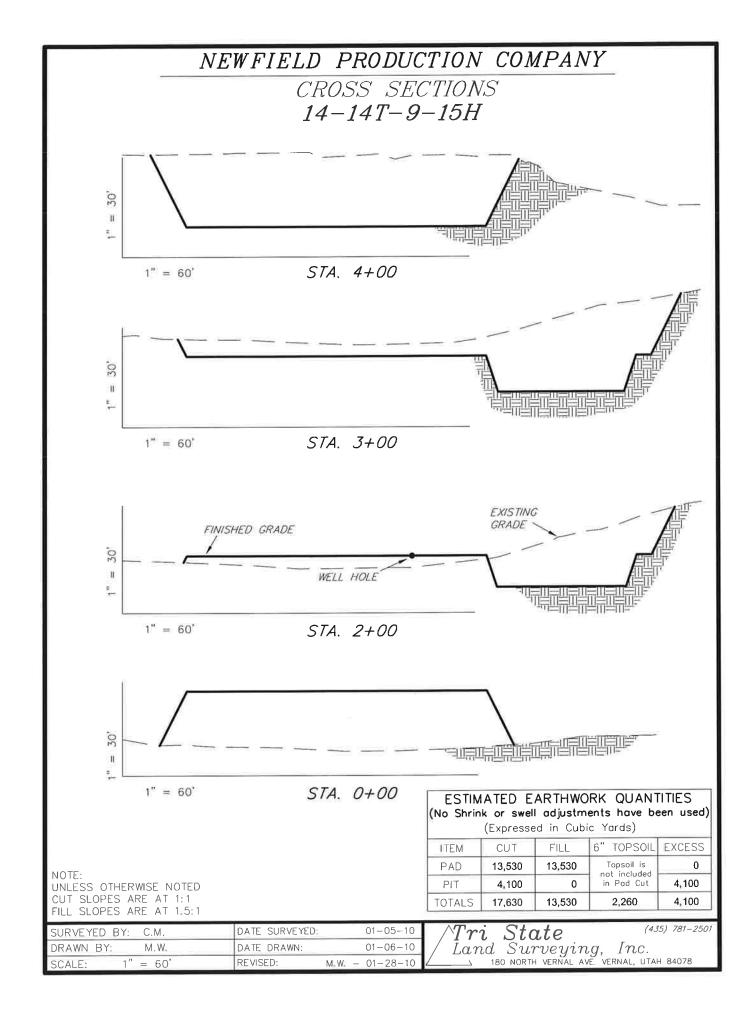
Mandie Crozier

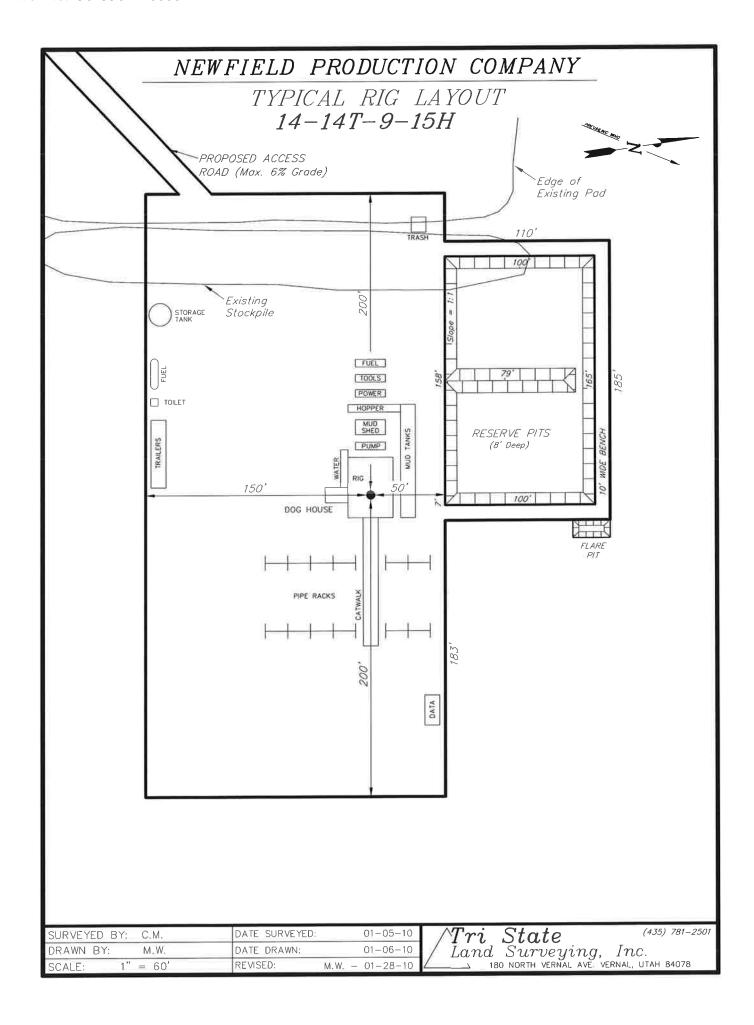
Regulatory Specialist

Newfield Production Company









Newfield Production Company Proposed Site Facility Diagram

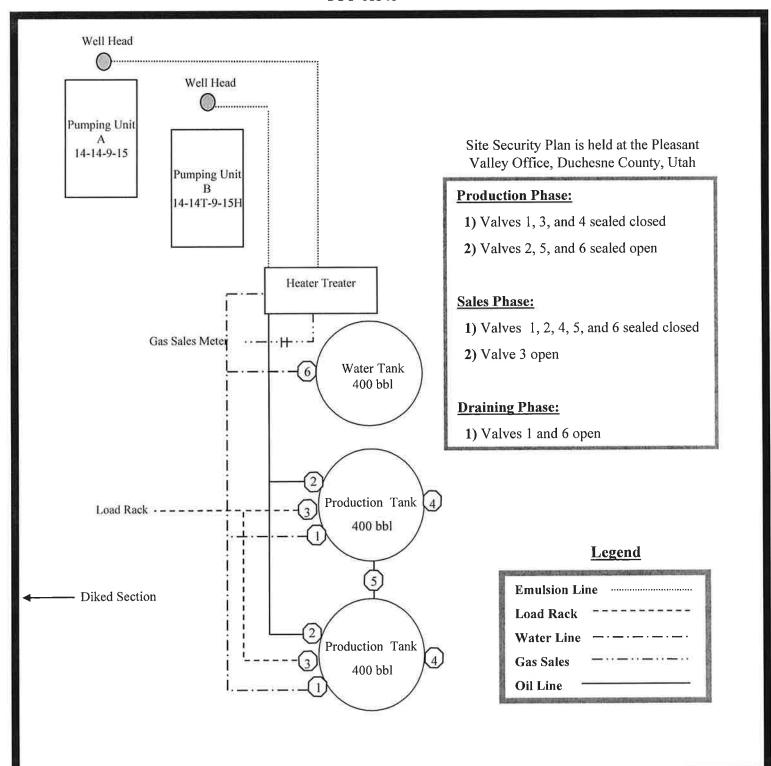
Greater Monument Butte 14-14T-9-15H

From the 14-14-9-15 Location

SE/SW Sec. 14 T9S, R15E

Duchesne County, Utah

UTU-68548



'APIWellNo:43013502420000'

Exhibit "D"

CULTURAL RESOURCE INVENTORY OF INLAND RESOURCES' 1750 ACRE ASHLEY UNIT, IN TOWNSHIP 9S, RANGE 15E, SECTIONS 13, 14, AND 15, DUCHESNE COUNTY, UTAH

> Anne Raney and Keith Montgomery

> > Prepared For:

Bureau of Land Management Vernal Field Office Vernal, Utah

Prepared Under Contract With:

Jon D. Holst & Associates for Inland Resources 2507 Flintridge Place Fort Collins, CO 80521

Prepared By:

Montgomery Archaeological Consultants P.O. Box 147 Moab, Utah 84532

MOAC Report No. 01-163

May 23, 2002

United States Department of Interior (FLPMA)
Permit No. 02-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-02-MQ-0235b

INLAND RESOURCES, INC.

PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, DUCHESNE COUNTY, UTAH

(South half Section 13, south half Section 14, south half Section 15, entire Sections 22, 23, 24, T 9 S, R 15 E; Section 5 minus SW & SE 1/4, SE 1/4, and existing well site at NW 1/4, NE 1/4, T 9 S, R 18 E)

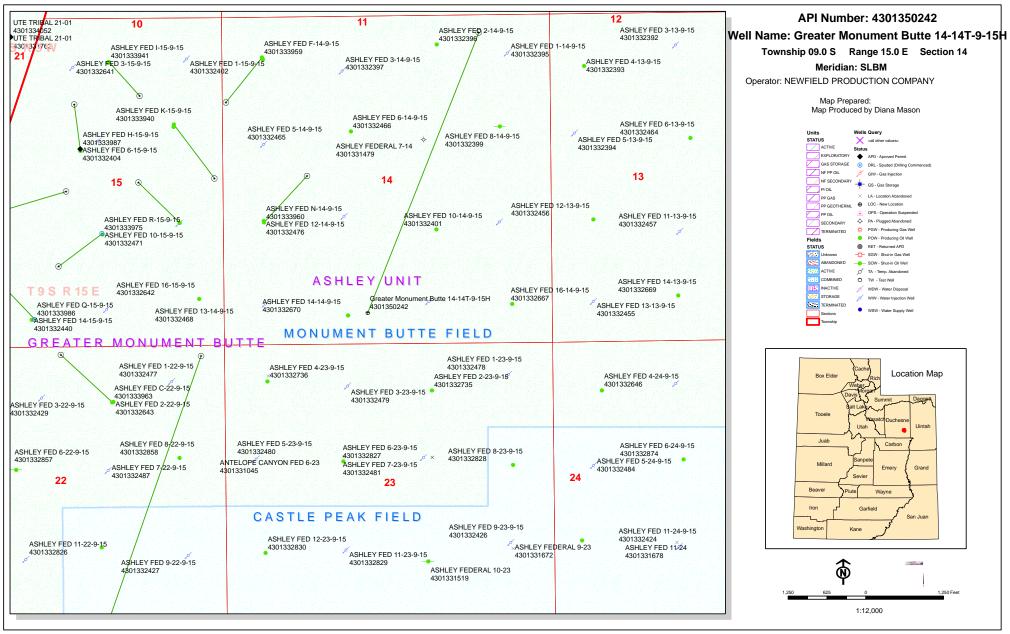
REPORT OF SURVEY

Prepared for:

Inland Resources, Inc.

Prepared by:

Wade E. Miller Consulting Paleontologist June 7, 2003



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

February 10, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument

Butte Unit, Duchesne and Uintah Counties,

Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following vertical and horizontal wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API# WELL NAME LOCATION (Proposed PZ GREEN RIVER) Sec 36 T08S R15E 0502 FSL 2096 FWL 43-013-34222 GMBBU 14-36-8-15H Lateral 1 Sec 36 T08S R15E 0386 FNL 0824 FEL 43-013-50242 GMBU 14-14T-9-15H Sec 14 T09S R15E 0510 FSL 2307 FWL Lateral 1 Sec 14 T09S R15E 0283 FNL 1150 FEL Sec 22 T09S R15E 0661 FSL 1978 FEL 43-013-50243 GMBU 15-22-9-15H Lateral 1 Sec 15 T09S R15E 0172 FSL 0375 FEL 43-013-50244 GMBU I-2-9-16 Sec 02 T09S R16E 0750 FNL 0755 FEL BHL Sec 02 T09S R16E 1207 FNL 1320 FEL 43-013-50248 GMBU E-1-9-16 Sec 01 T09S R16E 0787 FNL 0628 FWL BHL Sec 01 T09S R16E 0010 FNL 0010 FWL 43-013-50249 GMBU D-1-9-16 Sec 01 T09S R16E 0775 FNL 0645 FWL BHL Sec 01 T09S R16E 0010 FNL 1395 FWL 43-013-50250 GMBU M-1-9-16 Sec 01 T09S R16E 1998 FSL 1974 FWL BHL Sec 01 T09S R16E 2630 FNL 2630 FEL 43-013-50251 GMBU N-1-9-16 Sec 01 T09S R16E 1965 FNL 0674 FWL

BHL Sec 01 T09S R16E 2635 FSL 1325 FWL

| 43-013-50252 | GMBU | C-26-8-16 | BHL | | R16E R16E | | | |
|--------------|------|-----------|-----|------|------------------|---|------|--|
| 43-013-50253 | GMBU | A-11-9-16 | | | R16E R16E | | | |
| 43-013-50254 | GMBU | T-2-9-16 | BHL | | R16E R16E | | | |
| 43-013-50255 | GMBU | F-2-9-16 | BHL | | R16E R16E | | | |
| 43-013-50256 | GMBU | 0-2-9-16 | BHL | | R16E R16E | _ | | |
| 43-013-50257 | GMBU | H-1-9-16 | BHL | | R16E R16E | | | |
| 43-013-50258 | GMBU | R-26-8-16 | | | R16E R16E | | | |

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

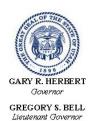
bcc: File - Greater Monument Butte Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:2-10-10

WORKSHEET APPLICATION FOR PERMIT TO DRILL

| APD RECEIVED: | 1/29/2010 | | API NO. ASSIGNED: | 43013502420000 |
|-------------------------------------|--|---------------------------|----------------------|----------------|
| WELL NAME: | Greater Monument B | Butte 14-14T-9-15H | | |
| OPERATOR: | NEWFIELD PRODUC | TION COMPANY (N2695) | PHONE NUMBER: | 435 646-4825 |
| CONTACT: | Mandie Crozier | | | |
| PROPOSED LOCATION: | SESW 14 090S 150B | E | Permit Tech Review: | |
| SURFACE: | 0510 FSL 2307 FWL | | Engineering Review: | |
| воттом: | 0283 FNL 1150 FEL | | Geology Review: | |
| COUNTY: | DUCHESNE | | | |
| LATITUDE: | 40.02507 | | LONGITUDE: | -110.19992 |
| UTM SURF EASTINGS: | 568272.00 | | NORTHINGS: | 4430637.00 |
| FIELD NAME: | MONUMENT BUTTE | | | |
| LEASE TYPE: | 1 - Federal | | | |
| LEASE NUMBER: | UTU-68548 | PROPOSED PRODUCING FORM | MATION(S): GREEN RIV | ΞR |
| SURFACE OWNER: | 1 - Federal | | COALBED METHANE: | NO |
| RECEIVED AND/OR REVIEW | VED: | LOCATION AND SITI | NG: | |
| ⊭ PLAT | | R649-2-3. | | |
| ▶ Bond: FEDERAL - WYB00 |)0493 | Unit: GMBU (GRRV | ") | |
| Potash | | R649-3-2. Gener | ral | |
| Oil Shale 190-5 | | | | |
| Oil Shale 190-3 | | R649-3-3. Excep | otion | |
| Oil Shale 190-13 | | Drilling Unit | | |
| ✓ Water Permit: 43-7478 | | Board Cause N | o: Cause 213-11 | |
| RDCC Review: | | Effective Date: | 11/30/2009 | |
| Fee Surface Agreemen | it | Siting: Suspend | ds General Siting | |
| Intent to Commingle | | r R649-3-11 . Dire | ctional Drill | |
| Commingling Approved | | | | |
| Comments: Presite Cor | mpleted | | | |
| Stipulations: 4 - Federa 15 - Direc | al Approval - dmason tional - bhill | | | |

API Well No: 43013502420000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Greater Monument Butte 14-14T-9-15H

API Well Number: 43013502420000 Lease Number: UTU-68548 Surface Owner: FEDERAL Approval Date: 2/17/2010

Issued to:

NEWFIELD PRODUCTION COMPANY, Rt 3 Box 3630, Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

Reporting Requirements:

API Well No: 43013502420000

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

Gil Hunt

Associate Director, Oil & Gas

Xil Hunt

| | STATE OF UTAH | | FORM 9 |
|--|--|---|---|
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN | | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-68548 |
| SUNDF | RY NOTICES AND REPORTS | ON WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | sals to drill new wells, significantly deepen ugged wells, or to drill horizontal laterals. U | | 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: Greater Monument Butte 14-14T-9-15H |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COM | IPANY | | 9. API NUMBER: 43013502420000 |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84 | | NE NUMBER: | 9. FIELD and POOL or WILDCAT: MONUMENT BUTTE |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0510 FSL 2307 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: SESW Section: 14 | Township: 09.0S Range: 15.0E Meridian: | S | STATE: UTAH |
| 11. CHE | CK APPROPRIATE BOXES TO INDICAT | TE NATURE OF NOTICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| Approximate date work will start: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| 8/10/2010 | ☐ CHANGE WELL STATUS | \square commingle producing formations | ☐ CONVERT WELL TYPE |
| SUBSEQUENT REPORT | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completion: | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | APD EXTENSION |
| Report Date: | ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: Tight Hole Status |
| 12. DESCRIBE PROPOSED OR CO | DMPLETED OPERATIONS. Clearly show all per | tinent details including dates, depths, v | /olumes, etc. |
| | hat "Tight Hole Status" be pla | FOR | Accepted by the Utah Division of I, Gas and Mining R RECORD ONLY |
| NAME (PLEASE PRINT) Mandie Crozier | PHONE NUMBER 435 646-4825 | TITLE Regulatory Tech | |
| SIGNATURE | | DATE 8/10/2010 | |

| | STATE OF UTAH | | FORM 9 |
|---|---|---------------------------------|--|
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MI | | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-68548 |
| SUND | RY NOTICES AND REPORTS | S ON WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | sals to drill new wells, significantly deepe ugged wells, or to drill horizontal laterals. | | 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: GREATER MON BUTTE 14-14T-9-15H |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COM | IPANY | | 9. API NUMBER: 43013502420000 |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84 | | ONE NUMBER: | 9. FIELD and POOL or WILDCAT: MONUMENT BUTTE |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0510 FSL 2307 FWL QTR/QTR, SECTION, TOWNSHI | | | COUNTY: DUCHESNE STATE: |
| | Township: 09.0S Range: 15.0E Meridian | : 5 | UTAH |
| CHE | CK APPROPRIATE BOXES TO INDICA | ATE NATURE OF NOTICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ☐ ACIDIZE | ☐ ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: 2/17/2011 | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| 2/17/2011 | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | FRACTURE TREAT | □ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| SPUD REPORT | ☐ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| _ | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| DRILLING REPORT Report Date: | WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ✓ APD EXTENSION |
| | WILDCAT WELL DETERMINATION | OTHER | OTHER: |
| | extend the Application for Pe extend the Application for Pe year. | ermit to Drill this well for on | |
| NAME (PLEASE PRINT) | PHONE NUMBER | R TITLE | |
| Mandie Crozier | 435 646-4825 | Regulatory Tech | |
| SIGNATURE N/A | | DATE 2/8/2011 | |



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013502420000

API: 43013502420000

Well Name: GREATER MON BUTTE 14-14T-9-15H

Location: 0510 FSL 2307 FWL QTR SESW SEC 14 TWNP 090S RNG 150E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 2/17/2010

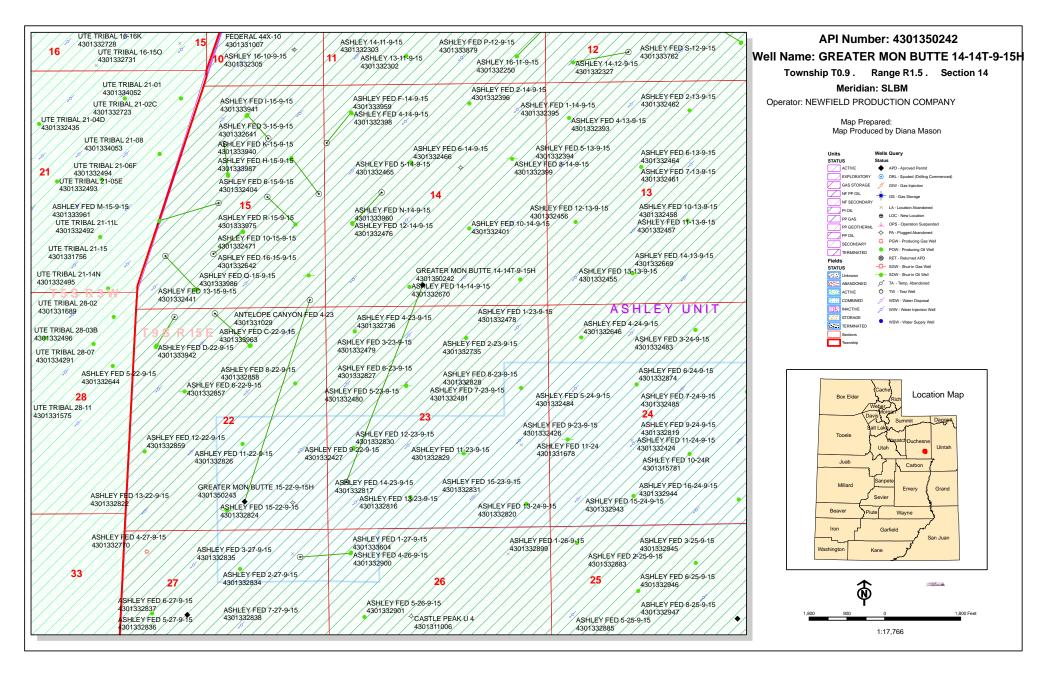
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

| and revision ronowing is a encertise of some realist related to the application, which should be verifical |
|--|
| If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No |
| Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No |
| Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No |
| Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No |
| • Has the approved source of water for drilling changed? Yes No |
| Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No |
| • Is bonding still in place, which covers this proposed well? Yes No |
| |

Signature: Mandie Crozier **Date:** 2/8/2011

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

| | STATE OF UTAH | | FORM 9 |
|--|---|---|--|
| | DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ | IG | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-68548 |
| SUNDI | RY NOTICES AND REPORTS OF | N WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | sals to drill new wells, significantly deepen exi- ugged wells, or to drill horizontal laterals. Use a | | 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: GREATER MON BUTTE 14-14T-9-15H |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COM | MPANY | | 9. API NUMBER: 43013502420000 |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 8 | | NUMBER: | 9. FIELD and POOL or WILDCAT: MONUMENT BUTTE |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0510 FSL 2307 FWL | | | COUNTY: DUCHESNE |
| Qtr/Qtr: SESW Section: 14 | IP, RANGE, MERIDIAN: Township: 09.0S Range: 15.0E Meridian: S | | STATE: UTAH |
| 11. CHE | CK APPROPRIATE BOXES TO INDICATE N | NATURE OF NOTICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| , | ☐ ACIDIZE ✓ | ALTER CASING | ☐ CASING REPAIR |
| ✓ NOTICE OF INTENT Approximate date work will start: 3/2/2011 | ☐ CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME |
| 3/2/2011 | ☐ CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | L DEEPEN L | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ PRODUCTION START OR RESUME | PLUG AND ABANDON RECLAMATION OF WELL SITE | ☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| Date of Spud. | TUBING REPAIR | VENT OR FLARE | WATER DISPOSAL |
| Drilling Report | □ water shutoff | SI TA STATUS EXTENSION | APD EXTENSION |
| Report Date: | | OTHER | OTHER: APD Change |
| 12. DECORPTE PROPOSED OR CO | | | , |
| The proposed dov changed. The new properties of the 440' FWL, SW/SW Set Attached is new plat Directional Drill | EMPLETED OPERATIONS. Clearly show all pertine with ole design for the above mer roposed Bottom Hole Footages week. 23 T9S R15E. No changes will pages, Well Pad Interference Plan. The remainder of the APD versions. | ntioned well has been ill now be 1135' FSL and be made to the surface at, Drilling Program, and will remain the same. | Approved by the Utah Division of |
| NAME (PLEASE PRINT) Mandie Crozier | PHONE NUMBER 435 646-4825 | TITLE Regulatory Tech | |
| SIGNATURE N/A | | DATE 3/2/2011 | |



NEWFIELD ROCKY MOUNTAINS

VIA ELECTRONIC DELIVERY

March 7, 2011

State of Utah, Division of Oil, Gas and Mining

ATTN: Diana Mason P.O. Box 145801

Salt Lake City, UT 84114-5801

RE: Sundry Notice

Greater Monument Butte 14-14T-9-15H Greater Monument Butte (Green River) Unit

Surface Hole:

T9S-R15E Section 14: SESW (UTU-68548)

510' FSL 2307' FWL

At Target:

T9S-R15E Section 23: SWSW (UTU-02458)

1135' FSL 440' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of a Sundry Notice affecting the above referenced well dated 3/2/2011, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of the revised footages of the surface and bottom hole locations referenced above

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire horizontal well bore are within the Greater Monument Butte Unit.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely, Newfield Production Company

Shane Gillespie
Land Associate

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1, TYPE OF WELL Oil Well

11.

2. NAME OF OPERATORS NEWFIELD 'PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052

4. LOCATION OF WELL FOOTAGES AT SURFACE:

435 646-4825 Ext

0510 FSL 2307 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: SEŞW Section: 14 Township: 09.0S Range: 15.0E Meridian: S

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-68548

6, IF INDIAN, ALLOTTEE OR TRIBE NAME:

7,UNIT or CA AGREEMENT NAME: GMBU (GRRV)

B, WELL NAME and NUMBER: GREATER MON BUTTE 14-14T-9-15H

9. API NUMBER: 43013502420000

9. FIELD and POOL or WILDCAT: MONUMENT BUTTE

COUNTY: DUCHESNE

STATE: UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

PHONE NUMBER:

| TYPE OF SUBMISSION | | TYPE OF ACTION | |
|-----------------------------------|-------------------------------|--------------------------------|--------------------------------|
| dia | ACIDIZE | ✓ ALTER CASING | CASING REPAIR |
| Approximate date work will start: | CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME |
| 3/2/2011 | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| SUBSEQUENT REPORT | DEEPEN | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completions | OPERATOR CHANGE | DLUG AND ABANDON | PLUG BACK |
| 2 | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT. Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| visite G | ☐ TUBING REPAIR | VENT OR FLARE | WATER DISPOSAL |
| DRILLING REPORT | ☐ WATER SHUTOFF | SI TA STATUS EXTENSION | APD EXTENSION |
| . Ar Report Date; | ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: APD Change |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The proposed downhole design for the above mentioned well has been changed. The new proposed Bottom Hole Footages will now be 1135' FSL and 440' FWL, SW/SW Sec. 23 T9S R15E. No changes will be made to the surface. Attached is new plat pages, Well Pad Interference Plat, Drilling Program, and Directional Drill Plan. The remainder of the APD will remain the same.

NAME (PLEASE PRINT) Mandie Crozier

The Stan

THE DE REPORT OF S 25/2/20 C

9,1700,770, 671

PHONE NUMBER

TITLE Regulatory Tech

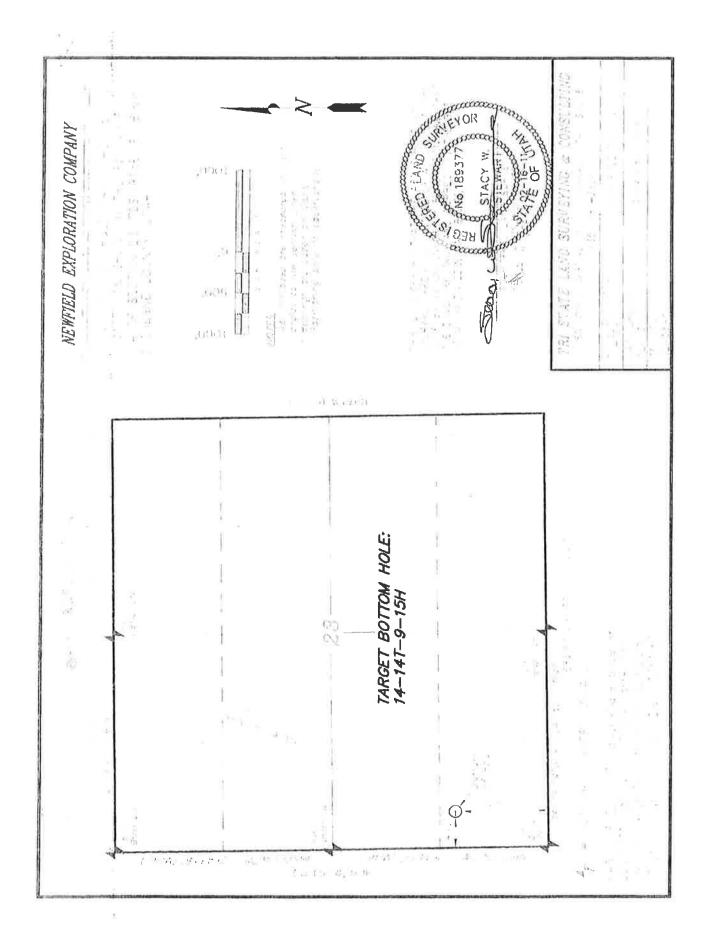
SIGNATURE ' N/A 1 1 1

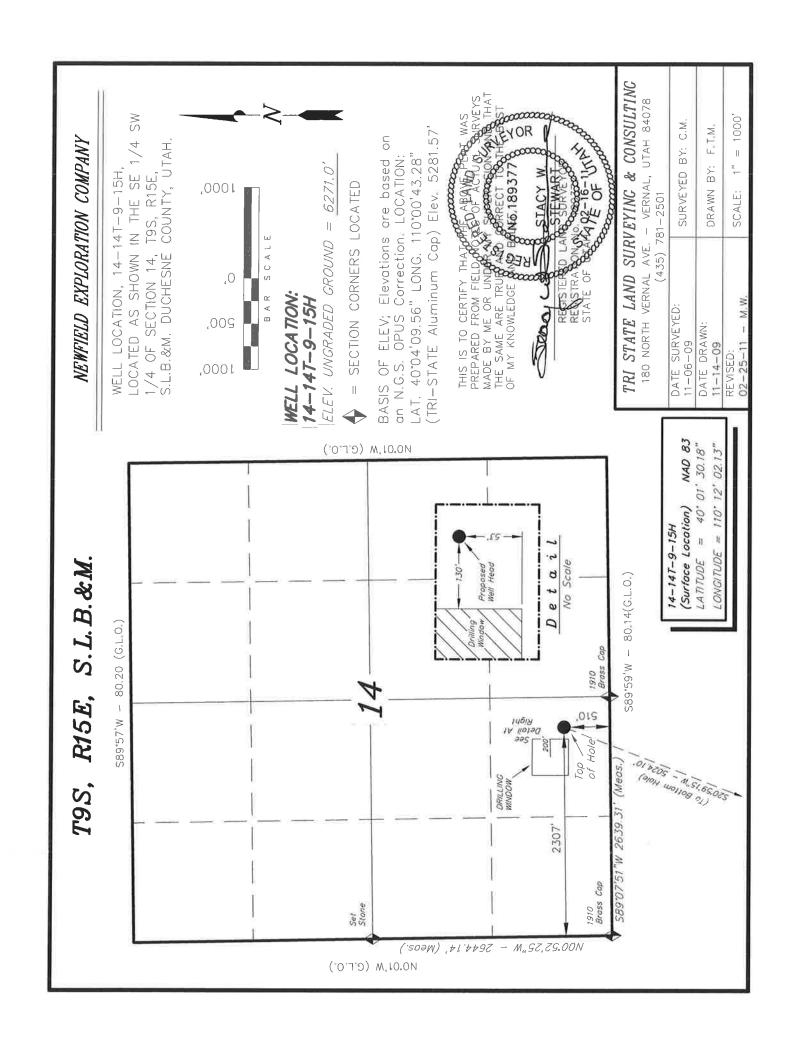
(. (C.) = 1 J. S. e promise are the v 435 646-4825

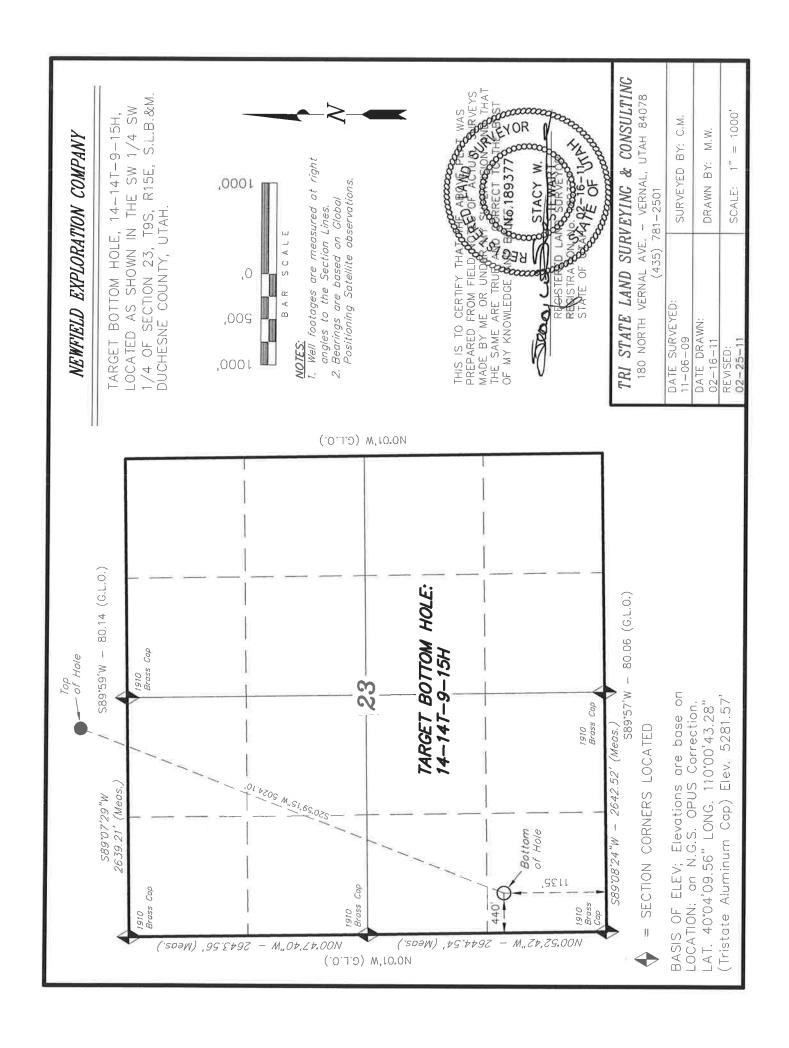
DATE

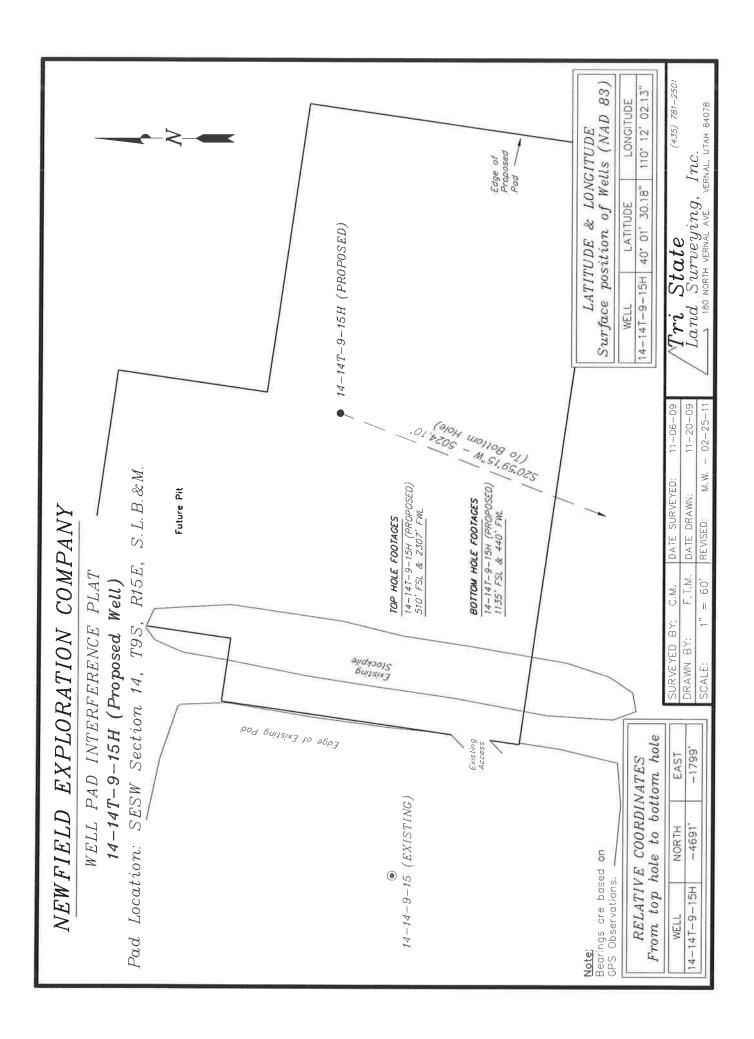
3/2/2011

1









NEWFIELD PRODUCTION COMPANY GREATER MONUMENT BUTTE 14-14T-9-15H

SHL: SW/SE SECTION 14, T9S, R15E BHL: NE/NE SECTION 23, T9S, R15E DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

This well is designed as a horizontal in the Basal Carbonate formation, at the base of the Green River formation. The well will be drilled vertically to a kick off point of 5,514'. Directional tools will then be used to build to 92.18° inclination and the well will be landed in the Basal Carbonate formation. The lateral will be drilled to the proposed bottomhole location, and a tapered string of 5-1/2" x 4-1/2" production casing will be run to TD. An open hole packer system and sliding sleeves will be used to isolate separate frac stages in the lateral. The casing will be cemented from the top of the curve to surface with a port collar.

1. <u>GEOLOGIC SURFACE FORMATION:</u>

Uinta formation

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Green River 1,555' Target (Basal Carbonate) 5,819'

TD 5,819' TVD / 10,814' MD

3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation (Oil) 4,000' – 5,819' TVD

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 300'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval Flow Rate

Date Sampled Temperature

Hardness Water Classification (State of Utah)

Dissolved Iron (Fe) (ug/l)

Dissolved Magnesium (Mg) (mg/l) Dissolved Bicarbonate (NaHCO₃) (mg/l)

Dissolved Sulfate (SO₄) (mg/l)

pН

Dissolved Calcium (Ca) (mg/l) Dissolved Sodium (Na) (mg/l) Dissolved Carbonate (CO₃) (mg/l) Dissolved Chloride (Cl) (mg/l)

Dissolved Total Solids (TDS) (mg/l)

4. PROPOSED CASING PROGRAM

Casing Design

| | In | terval | | | | | | F | Des | ign Fact | ors |
|----------------------|--------|---------|--------|-------|------|------------|------|----------------|-------|----------|-------|
| Description | | ici vai | Weight | Grade | Coup | Pore Press | _ | Frac Grad @ | | | |
| | Тор | Bottom | (ppf) | | | @ Shoe | Shoe | Shoe | Burst | Col | Tens |
| Surface 8-5/8" | 0' | 300 | 24.0 | J-55 | STC | 8,33 | 8.33 | 12.0 | 17.07 | 13.71 | 33.89 |
| Production 5-1/2" | 0' | 6,282' | 17.0 | N-80 | LTC | 344 | : ** | ** | 3.99 | 3.16 | 2.22 |
| Production 4-1/2" | 6,282' | 10,814' | 11.6 | N-80 | LTC | 8,3 | 8.5 | (\$4) | 4,01 | 3,19 | 2.17 |

Assumptions:

- 1) Surface casing MASP = (frac gradient + 1.0 ppg) gas gradient
- 2) Production casing MASP (production mode) = reservoir pressure gas gradient
- 3) All collapse calculations assume fully evacuated casing
- 4) Surface tension calculations assume air weight of casing
- 5) Production tension calculations assume air weight in vertical portion of hole, plus 50,000 lbs overpull

All casing shall be new.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

The well will be drilled in 7-7/8" hole size in the vertical and curve sections. Once the well is landed in the Basal Carbonate formation the hole size will be changed to 6-1/8". Due to geological requirements, a special density LWD (logging while drilling) tool will be used. This tool is only available in 4-3/4" tool size and requires the smaller hole size. The production casing will be 5-1/2" in the vertical and curve sections, and will be 4-1/2" in the lateral portion of the well only. Separate frac stages in the lateral portion of the well will be isolated with open hole packers, and accessed with ball actuated sliding sleeves. A port cementing collar will be placed near kick-off point, and cement will be circulated to surface. The cement job will be isolated from the lateral with open hole packers.

b. Cement Design

| Job | Hole | Fill | Slurry Description | ft ³ | OH Excess | Weight | Yield |
|------------|---------|--------|---|-----------------|-----------|--------|----------|
| 300 | Size | | Sidily Description | Sacks | OH EXCESS | (ppg) | (ft3/sk) |
| Surface | 12-1/4" | 300' | Class G w/ 2% CaCl ₂ , 0.25 lbs/sk | 142 | 15% | 15.8 | 1.17 |
| | 12-1/4 | 300 | Cello Flake | 122 | 1376 | 15.6 | 1417 |
| Production | 7-7/8" | 4.000' | Premium Lite II w/ 3% KCI, 10% | 797 | 15% | 11.0 | 3.50 |
| Lead | 7-770 | 4,000 | bentonite | 244 | 1376 | -11.0 | 3,30 |
| Production | 7-7/8" | 1.514' | 50/50 Poz/Class G w/ 3% KCl, 2% | 302 | 15% | 14.3 | 1.24 |
| Tail | 1-1/0 | 1,314 | bentonite | 243 | 1370 | 17.0 | 1,24 |

Actual cement volumes will be calculated from open hole logs, plus 15% excess.

Production casing cement will be pumped through a port cementing collar located at the top of

the curve. The lateral will be left uncemented. The lateral will be isolated with open hole packers.

Waiting On Cement: A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out of the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The Vernal BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

As a minimum, usable water zones shall be isolated and/or protected by having a cement top for the production casing at least 200 feet above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

A Form 3160-5, "Sundry Notices and Reports on Wells" shall be filed with the Vernal Office Manager within 30 days after the work is completed. This report must include the following information:

Setting of each string of casing showing the size, grade, weight of casing set, depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of the cementing tools used, casing test method and results, and the date of the work done. Spud date will be shown on the first reports submitted.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc for a 2M system.

A 2000 psi WP hydraulic BOP stack consisting of two ram preventers (double or two singles) and a rotating head per **Exhibit C**. This system will be in accordance to the specifications listed in the Standard Operating Procedures for the Greater Monument Butte Green River Development Program.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Driller's report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to BLM representatives upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2 regarding air or gas shall be adhered to. If a mist system is being utilized, the requirement for a deduster shall be waived.

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

From surface to 300', an air or fresh water system will be used. From 300' to TD, a fresh water or brine water system will be utilized. Anticipated maximum mud weight is 9.0 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

7. <u>AUXILIARY SAFETY EQUIPMENT TO BE USED:</u>

8. <u>TESTING, LOGGING AND CORING PROGRAMS:</u>

a. Logging Program:

(the log types run may change at the discretion of the geologist)

FDC/CNL/GR/DIL: Top of the curve – 4,000'

CBL: A cement bond log will be run from KOP to the cement top of the production casing. A field copy will be submitted to the Vernal BLM Office.

- **b.** Cores: As deemed necessary.
- c. **Drill Stem Tests:** No DSTs are planned in the Green River.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

There is no abnormal pressure or temperature expected. Maximum anticipated bottomhole pressure will be approximately equal total true vertical depth in feet multiplied by a 0.433 psi/foot gradient.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

a. Drilling Activity

Anticipated Commencement Date: Drilling Days: Completion Days: Upon approval of the site specific APD. Approximately 18 days. Approximately 12 - 20 days.

b. Notification of Operations

The Vernal BLM office will be notified at least 24 hours **prior** to the commencement of spudding the well (to be followed with a Sundry Notice, Form 3160-5), of initiating pressure tests of the blowout preventer and related equipment, and running casing and cementing of all casing strings. Notification will be made during regular work hours (7:45 a.m.-4:30 p.m., Monday - Friday except holidays).

<u>Immediate Report</u>: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the appropriate regulations, Onshore Orders, or BLM policy.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in suspended status without prior approval from the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given to the BLM before resumption of operations.

Daily drilling and completion reports shall be submitted to the Vernal BLM Office on a weekly basis.

Whether the well is completed as a dry hole or a producer, the "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Authorized Officer (AO).

A completion rig will be used for completion operations after the wells are stimulated to run the production tubing. All conditions of this approved plan will be applicable during all operations conducted with the completion rig.

Operator shall report production data to the MMS pursuant to 30 CFR 216.5 using form MMS/3160. In accordance with Onshore Oil and Gas Order No. 1, a well will be reported on form 3160-6, "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM Office.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is measured through permanent metering facilities, whichever occurs first.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by written communication not later than 5 days following the date when the well is placed on production.

Pursuant to Onshore Order No. 7, with the approval of the AO, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During this period, an application for approval of the permanent disposal method must be submitted to the AO.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during the initial well evaluation tests, not to exceed 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the AO and approval received for any venting/flaring of gas beyond the initial 30 days or authorized test period.

A schematic facilities diagram, as required by 43 CFR 3162.7-5(b.9.d), shall be submitted to the Vernal BLM Office within 60 days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil & Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5(b.4).

Well abandonment operations shall not be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment", Form 3160-5, will be filed with the Authorized Officer within 30 days following completion of the well for abandonment. This report will indicate placement of the plugs and current status of the surface restoration. Final Abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO, or the appropriate surface managing agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with the State and local laws, to the extent to which they are applicable, to operations on Federal or Indian lands.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

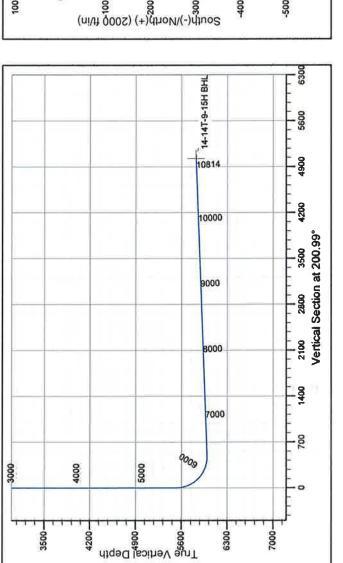


Newfield Production Company

Project: Monument Butte Site: 14-14T-9-15H Well: 14-14T-9-15H

Wellbore: Wellbore #1 Design: Design #1

Magnetic Field Strength: 52409.2snT Dip Angle: 65.80° Date: 12/31/2009 Model: IGRF200510 T M Azimuths to True North Magnetic North: 11.54°



| 1000 1000 0 1000 0000 | 4000 -3000 |
|-----------------------|------------|
| 14-14T-9-15H BHL | |
| | |
| | |
| | |
| | |
| | |

| | | | | | SECT | ECTION DETAIL | LS. | | | |
|-----|--------|-------|--------|--------|---------|---------------|-------|--------|--------|------------------|
| Sec | ₽ | 로 | Azi | 2 | S-M+ | +E/-W | DLeg | TFace | VSec | Target |
| - | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 | 1 |
| 7 | 5514.0 | 0.00 | 0.00 | 5514.0 | 0.0 | 0.0 | 0.00 | 0.0 | 0.0 | |
| 3 | 5282.2 | 92.18 | 200.99 | 5991.1 | 462.7 | -177.5 | 12.00 | 200.99 | 495.6 | |
| 410 | 0813.9 | 92.18 | 200.99 | 5819.0 | -4690.8 | -1799.5 | 0.00 | 0.00 | 5024.1 | 14-14T-9-15H BHL |

Created by: Hans Wychgram Date: 2-21-11

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone PROJECT DETAILS: Monument Butte

System Datum: Mean Sea Level

Newfield Production Company

Monument Butte 14-14T-9-15H 14-14T-9-15H

Wellbore #1

Plan: Design #1

Standard Planning Report

02 March, 2011

Planning Report

Database: Company: EDM 2003.21 Single User Db

Newfield Production Company

Project: Monument Butte 14-14T-9-15H Site: 14-14T-9-15H Well: Wellbore: Wellbore #1

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference:

RKB @ 6283.0ft (Capstar #329) RKB @ 6283.0ft (Capstar #329)

True

Minimum Curvature

Well 14-14T-9-15H

Design: Project

Monument Butte

Design #1

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983

Utah Central Zone

System Datum:

Mean Sea Level

Map Zone:

Site

Site Position: From:

Lat/Long

14-14T-9-15H

Northing: Easting:

2,188,618.12 m 610,906.42 m

Latitude: Longitude:

40° 1' 30.180 N 110° 12' 2.130 W

Position Uncertainty:

Slot Radius:

Grid Convergence:

0.83°

Well

14-14T-9-15H

Well Position

+N/-S +E/-W 0.0 ft 0.0 ft

0.0 ft

Northing: Easting:

2,188,618.12 m 610,906.42 m

ft

Latitude: Longitude:

40° 1' 30.180 N 110° 12' 2.130 W

Position Uncertainty

IGRF200510

0.0 ft Wellhead Elevation:

Ground Level:

6,271.0 ft

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

12/31/2009

Declination (°) 11.54 Dip Angle 65.80 Field Strength (nT)

52,409

Design

Design #1

Audit Notes:

Version:

Vertical Section: Depth From (TVD) (ft)

Phase:

0.0

PROTOTYPE +N/-S

(ft)

0.0

Tie On Depth: +E/-W (ft) 0.0

0.0

Direction (°) 200.99

Plan Sections

| Measured | | | Vertical | | | Dogleg | Build | Turn | | |
|---------------|--------------------|----------------|---------------|---------------|---------------|-------------------|-------------------|-------------------|------------|------------------|
| Depth (ft) | Inclination (°) | Azimuth (°) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Rate (°/100ft) | Rate (°/100ft) | Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,514.0 | 0.00 | 0.00 | 5,514.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,282.2 | 92.18 | 200.99 | 5,991.1 | -462.7 | -177.5 | 12.00 | 12.00 | 0.00 | 200.99 | |
| 10,813.9 | 92.18 | 200.99 | 5,819.0 | -4,690.8 | -1,799.5 | 0.00 | 0.00 | 0.00 | 0.00 | 14-14T-9-15H BHL |

Planning Report

Database: Company: EDM 2003.21 Single User Db Newfield Production Company

 Project:
 Monument Butte

 Site:
 14-14T-9-15H

 Well:
 14-14T-9-15H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 14-14T-9-15H

RKB @ 6283.0ft (Capstar #329) RKB @ 6283.0ft (Capstar #329)

True

Minimum Curvature

| ned Survey | | | | | | | | | |
|---------------------------|-----------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 2,100.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | | | | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 0.0 | 0.0 0.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | | | • | | | | | | |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4.000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | | | 0.00 | | 0.00 |
| 4,200.0 | 0.00 | 0.00 | | | 0.0 | 0.0 | | 0.00 | 0.00 |
| 4,300.0 | 0.00 | | 4,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 0.00 | 4,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 0.00 | 4,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 0.00 | 5,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 0.00 | 0.00 | 5,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: Company: EDM 2003.21 Single User Db Newfield Production Company

 Project:
 Monument Butte

 Site:
 14-14T-9-15H

 Well:
 14-14T-9-15H

 Wellbore:
 Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 14-14T-9-15H

RKB @ 6283.0ft (Capstar #329) RKB @ 6283.0ft (Capstar #329)

True

Minimum Curvature

| Wellbore: Design: | Wellbore #1 Design #1 | | | | | | | | |
|--|---|--|---|--|--|---|--------------------------------------|--------------------------------------|------------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,400.0 | 0.00 | 0.00 | 5,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,514.0 | 0.00 | 0.00 | 5,514.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 10.32 | 200.99 | 5,599.5 | -7.2 | -2.8 | 7.7 | 12.00 | 12.00 | 0.00 |
| 5,700.0 | 22.32 | 200.99 | 5,695.3 | -33.4 | -12.8 | 35.8 | 12.00 | 12.00 | 0.00 |
| 5,800.0 | 34.32 | 200.99 | 5,783.2 | -77.6 | -29.8 | 83.1 | 12.00 | 12.00 | 0.00 |
| 5,900.0 | 46.32 | 200.99 | 5,859.3 | -137.9 | -52.9 | 147.7 | 12.00 | 12.00 | 0.00 |
| 6,000.0 | 58.32 | 200.99 | 5,920.3 | -211.7 | -81.2 | 226.7 | 12.00 | 12.00 | 0.00 |
| 6,100.0 | 70.32 | 200.99 | 5,963.6 | -295.6 | -113.4 | 316.6 | 12.00 | 12.00 | 0.00 |
| 6,200.0 | 82.32 | 200.99 | 5,987.2 | -386.2 | -148.1 | 413.6 | 12.00 | 12.00 | 0.00 |
| 6,282.2 | 92.18 | 200.99 | 5,991.1 | -462.7 | -177.5 | 495.6 | 12.00 | 12.00 | 0.00 |
| 6,300.0 | 92.18 | 200.99 | 5,990.5 | -479.4 | -183.9 | 513.4 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 92.18 | 200.99 | 5,986.7 | -572.7 | -219.7 | 613.3 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 92.18 | 200.99 | 5,982.9 | -666.0 | -255.5 | 713.3 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 92.18 | 200.99 | 5,979.1 | -759.3 | -291.3 | 813.2 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 92.18 | 200.99 | 5,975.3 | -852.6 | -327.1 | 913.1 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 92.18 | 200.99 | 5,971.5 | -945.9 | -362.8 | 1,013.1 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 92.18 | 200.99 | 5,967.7 | -1,039.2 | -398.6 | 1,113.0 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 92.18 | 200.99 | 5,963.9 | -1,132.4 | -434.4 | 1,212.9 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 92.18 | 200.99 | 5,960.1 | -1,225.7 | -470.2 | 1,312.8 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 92.18 | 200.99 | 5,956.3 | -1,319.0 | -506.0 | 1,412.8 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 92.18 | 200.99 | 5,952.5 | -1,412.3 | -541.8 | 1,512.7 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 92.18 | 200.99 | 5,948.7 | -1,505.6 | -577.6 | 1,612.6 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 92.18 | 200.99 | 5,944.9 | -1,598.9 | -613.4 | 1,712.6 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 92.18 | 200.99 | 5,941.1 | -1,692.2 | -649.2 | 1,812.5 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 92.18 | 200.99 | 5,937.3 | -1,785.5 | -685.0 | 1,912.4 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 92.18 | 200.99 | 5,933.5 | -1,878.8 | -720.7 | 2,012.3 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 92.18 | 200.99 | 5,929.7 | -1,972.1 | -756.5 | 2,112.3 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 92.18 | 200.99 | 5,925.9 | -2,065.4 | -792.3 | 2,212.2 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 92.18 | 200.99 | 5,922.1 | -2,158.7 | -828.1 | 2,312.1 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 92.18 | 200.99 | 5,918.3 | -2,252.0 | -863.9 | 2,412.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 92.18 | 200.99 | 5,914.5 | -2,345.3 | -899.7 | 2,512.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 92.18 | 200.99 | 5,910.7 | -2,438.6 | -935.5 | 2,611.9 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 92.18 | 200.99 | 5,906.9 | -2,531.9 | -971.3 | 2,711.8 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 92.18 | 200.99 | 5,903.1 | -2,625.2 | -1,007.1 | 2,811.8 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 92.18 | 200.99 | 5,899.3 | -2,718.5 | -1,042.9 | 2,911.7 | 0.00 | 0.00 | 0.00 |
| 8,800.0 8,900.0 9,000.0 9,100.0 .9,200.0 | 92.18 92.18 92.18 92.18 92.18 | 200.99 200.99 200.99 200.99 200.99 | 5,895.5 5,891.7 5,887.9 5,884.1 5,880.3 | -2,811.8 -2,905.1 -2,998.4 -3,091.7 -3,185.0 | -1,078.7 -1,114.4 -1,150.2 -1,186.0 -1,221.8 | 3,011.6 3,111.5 3,211.5 3,311.4 3,411.3 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| 9,300.0 | 92.18 | 200.99 | 5,876.5 | -3,278.3 | -1,257.6 | 3,511.3 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 92.18 | 200.99 | 5,872.7 | -3,371.6 | -1,293.4 | 3,611.2 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 92.18 | 200.99 | 5,868.9 | -3,464.9 | -1,329.2 | 3,711.1 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 92.18 | 200.99 | 5,865.1 | -3,558.2 | -1,365.0 | 3,811.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 92.18 | 200.99 | 5,861.3 | -3,651.5 | -1,400.8 | 3,911.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 92.18 | 200.99 | 5,857.5 | -3,744.8 | -1,436.6 | 4,010.9 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 92.18 | 200.99 | 5,853.7 | -3,838.1 | -1,472.3 | 4,110.8 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 92.18 | 200.99 | 5,849.9 | -3,931.4 | -1,508.1 | 4,210.8 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 92.18 | 200.99 | 5,846.1 | -4,024.7 | -1,543.9 | 4,310.7 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 92.18 | 200.99 | 5,842.3 | -4,118.0 | -1,579.7 | 4,410.6 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 92.18 | 200.99 | 5,838.5 | -4,211.3 | -1,615.5 | 4,510.5 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 92.18 | 200.99 | 5,834.7 | -4,304.6 | -1,651.3 | 4,610.5 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 92.18 | 200.99 | 5,830.9 | -4,397.9 | -1,687.1 | 4,710.4 | 0.00 | 0.00 | 0.00 |

Planning Report

Database: Company: EDM 2003.21 Single User Db Newfield Production Company

Project: Site:

Monument Butte

14-14T-9-15H 14-14T-9-15H Well: Wellbore: Wellbore #1 Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well 14-14T-9-15H

RKB @ 6283.0ft (Capstar #329) RKB @ 6283.0ft (Capstar #329)

True

Minimum Curvature

Planned Survey

| Measured Depth (ft) | inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|-----------------|------------------|---------------------------|----------------------|----------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 10,600.0 10,700.0 | 92.18 92.18 | 200.99 200.99 | 5,827.1 5,823.3 | -4,491.2 -4,584.5 | -1,722.9 -1,758.7 | 4,810.3 4,910.2 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 10,800.0 10,813.9 | 92.18 92.18 | 200.99 200.99 | 5,819.5 5,819.0 | -4,677.8 -4,690.8 | -1,794.5 -1,799.5 | 5,010.2 5,024.1 | 0.00 0.00 | 0.00 | 0.00 |

Form 3160-3 (August 2007)

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

UNITED STATES DEPARTMENT OF THE INTERIOR OF LAND MANAGEMENT OF LAND MA

| 5. | Lease Serial No. |
|----|------------------|
| | UTU-68548 |
| | |

| APPLICATION FOR PERMIT TO | | REENTER | 4 1 13 1L | 6. If Indian, Allote NA | e or Tribe Na | me | |
|--|---------------------------------------|---|------------------------------------|--|-----------------|----------------|---------|
| la. Type of work: DRILL REEN | a. Type of work: | | | 7. If Unit or CA Ag Greater Monu | | e and No. | |
| lb. Type of Well: | ✓ Sin | ngle Zone Multi | ple Zone | 8. Lease Name and Greater Monumer | | 14T-9-15I | —— H |
| Name of Operator Newfield Production Company | | | | 9. API Well No. 43-013-50242 | | <u></u> | |
| 3a. Address Route #3 Box 3630, Myton UT 84052 | 1 | Phone No. (include area code) (435) 646-3721 | | 10. Field and Pool, or Exploratory Monument Butte | | | |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.*) | | | | | Blk. and Surve | y or Area | |
| At surface SE/SW 510' FSL 2307' FWL Sec. | 14, T9S R15E | (UTU-68548) | | Sec. 14, T9S I | R15E | | |
| At proposed prod. zone NE/NE 283' FNL 1150' FEL S | Sec. 14, T9S F | R15E (UTU-6618 | 4) | | | | |
| Distance in miles and direction from nearest town or post office* Approximately 15.6 miles southwest of Myton, UT | | | | 12. County or Parish Duchesne | i i | 3. State JT | _ |
| 15. Distance from proposed* location to nearest | 16. No. of a | cres in lease | 17. Spacin | ng Unit dedicated to this | well | | _ |
| property or lease line, ft. Approx. 283' f/lse, NA' f/unit (Also to nearest drig. unit line, if any) | | 1.22 | | 320 Acres | 320 Acres | | |
| Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 820' | | | /BIA Bond No. on file WYB000493 | | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approxir | 22. Approximate date work will start* | | 23. Estimated duration | | | |
| 6271' GL | 900 | 2000 Octr. 2010 | | (10) days from SPUD to rig release | | | |
| | 24. Attac | hments | | | | | |
| The following, completed in accordance with the requirements of Onsh | ore Oil and Gas | Order No.1, must be a | ttached to th | is form: | · | | |
| Well plat certified by a registered surveyor. A Drilling Plan. | | Item 20 above). | • | ns unless covered by a | n existing bor | ıd on file (s | iee |
| A Surface Use Plan (if the location is on National Forest Systen SUPO must be filed with the appropriate Forest Service Office). | n Lands, the | Operator certific Such other site BLM. | | ormation and/or plans a | is may be requ | aired by the | ; |
| 25. Signature | | (Printed/Typed) | | | Date | | |
| Title Parale Cray | Mand | ie Crozier | | | | 3/10 | |
| Regulatory Specialist Approved by (Signature) | Name | (Printed Typed) K | Cencz | ka | DaFEB | 14 | 20 |
| Title Assistant Field Manager | Office | VEDAL | VI EIEI | ח אבנותב | | | _ |
| Lands & Mineral Resources Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached. | | able title to those right PROVAL ATT | | | entitle the app | licant to | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as | crime for any pe s to any matter w | erson knowingly and vithin its jurisdiction. | willfully to m | nake to any department | or agency of | the United | = |
| (Continued on page 2) | | | | -IVED *(Ins | tructions c | n page 2 | 2) |
| IDUCH | | Same to the first the same of | FEB 2 | 8 2011 | | | |
| VVVIII | | DIV. | OF OIL G | AS & MINING | . 1 | | |

NOTICE OF APPROVAL

NOS 12409 FEB - 12010

AFMSS# 105X50132A



170 South 500 East

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

RNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

| Company: | Newfield Production Company | Location: | SESW, Sec. 14, T9S, R15E |
|----------|-------------------------------------|------------|-----------------------------|
| Well No: | Greater Monument Butte 14-14T-9-15H | Lease No: | UTU-68548 |
| API No: | 43-013-50242 | Agreement: | Greater Monument Butte Unit |

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

| Location Construction (Notify Environmental Scientist) | _ | Forty-Eight (48) hours prior to construction of location and access roads. |
|--|---|--|
| Location Completion (Notify Environmental Scientist) | - | Prior to moving on the drilling rig. |
| Spud Notice (Notify Petroleum Engineer) | - | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing (Notify Supv. Petroleum Tech.) | | Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut vn opreport@blm.gov. |
| BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.) | _ | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice (Notify Petroleum Engineer) | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- All permanent (meaning on site for six months or longer) structures will be painted Covert Green to
 match the surrounding landscape color unless otherwise authorized. This will include all facilities
 except those required to comply with Occupational Safety and Health Act (OSHA) regulations.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur, and a completed Weed Inventory Form will be submitted to the BLM Authorized Officer.

Reclamation

• Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

Interim and Final Reclamation Seed Mixture

| Common name | Latin name | lbs/acre | Recommended seed planting depth |
|----------------------|----------------------------|----------|---------------------------------------|
| Squirreltail grass | Elymus elymoides | 3.0 | 1/4 - 1/2" |
| Bluebunch wheatgrass | Pseudoroegneria spicata | 3.0 | 1/2" |
| Shadscale saltbush | Atriplex confertifolia | 3.0 | 1/2" |
| Four-wing saltbush | Atriplex canescens | 3.0 | 1/2" |
| Gardner's saltbush | Atriplex gardneri | 2.0 | 1/2" |
| Scarlet globemallow | Sphaeralcea coccinea | 1.0 | 1/8 – 1/4" |

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- The production casing shall be cemented to surface.
- If drilling conditions warrant (Loss Circulation), a two stage cement job shall be used to cement the production casing in place.
- Gamma Ray Log shall be run from Total Depth to Surface.

Variances Granted

- Air Drilling
- Dust suppression equipment. Variance granted for water mist system to substitute for the dust suppression equipment.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 80' from the well bore.
- Straight run blooie line. Variance granted for targeted "T's" at bends.
- Automatic igniter. Variance granted for igniter due to water mist.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By Cheyenne Bateman Phone Number 435-823-2419
Well Name/Number Greater Monument Butte 14-14T-9-15H
Qtr/Qtr SE/SW Section 14 Township 9S Range 15E
Lease Serial Number UTU-68548
API Number 43-013-50242

API Number 43-013-50242 Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string. Date/Time <u>3/15/2011</u> <u>8:00</u> AM ⊠ PM □ <u>Casing</u> – Please report time casing run starts, not cementing times. **Surface Casing Intermediate Casing Production Casing** Liner Other Date/Time <u>3/15/2011</u> <u>2:00</u> AM ☐ PM ⊠ **BOPE** Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other AM Date/Time | PM |

| Remarks | • | | |
|---------|---|------|--|
| | | | |

FORM 3160-5

UNITED STATES

| | | | FORM APPROVEI GMB No. 1004-013 Expires: July 31,201 |
|--|----|-------------|---|
| | 5. | Lease Seria | No. |

| BUREAU OF LAND MANA (NOTICES AND REPOIN his form for proposals to | GEMENT RTS ON WELLS drill or to re-enter an | | 5. Lease Serial USA UTU-65 | | |
|--|--|---|--|---|--|
| TRIPLICATE - Other In | nstructions on page 2 | | 7. If Unit or CA/A | greement, Name and/or | |
| Other | | | 8. Well Name and GMBU 14-14T-9 | | |
| JWII AIN I | | | | | |
| | 435,646,3721 | | 10. Field and Pool, or Exploratory Area | | |
| Sec., T., R., M., or Survey Descrip | tion) | | GREATER MB UNIT | | |
| | • | | 11. County or Pari | ish, State | |
| | | | DUCHESNE, UT | | |
| APPROPRIATE BOX(ES | S) TO INIDICATE NA | TURE OF NO | TICE, OR OT | HER DATA | |
| | TYP | E OF ACTION | | | |
| Acidize Alter Casing Casing Repair Change Plans Convert to Injector | Deepen Fracture Treat New Construction Plug & Abandon Plug Back | Reclamation Recomplete Temporaril | on e ly Abandon | Water Shut-Off Well Integrity Other Spud Notice | |
| | BUREAU OF LAND MANAY NOTICES AND REPORT his form for proposals to the sell. Use Form 3160-3 (AP) TRIPLICATE - Other In the sell of the sel | TRIPLICATE - Other Instructions on page 2 Other OMPANY 3b. Phone (include are 435.646.3721 Sec., T., R., M., or Survey Description) APPROPRIATE BOX(ES) TO INIDICATE NATE TYPE Acidize Deepen Fracture Treat Acidize Plans Plug & Abandon | BUREAU OF LAND MANAGEMENT NOTICES AND REPORTS ON WELLS his form for proposals to drill or to re-enter an cell. Use Form 3160-3 (APD) for such proposals. TRIPLICATE - Other Instructions on page 2 Other MPANY 3b. Phone (include are code) 435.646.3721 Sec., T., R., M., or Survey Description) TYPE OF ACTION Acidize Deepen Production Alter Casing Fracture Treat Reclamatic Recomplet Casing Repair New Construction Recomplet Change Plans Plug & Abandon Temporari | NOTICES AND REPORTS ON WELLS his form for proposals to drill or to re-enter an cell. Use Form 3160-3 (APD) for such proposals. TRIPLICATE - Other Instructions on page 2 Other OMPANY 3b. Phone (include are code) 435.646.3721 County or Par DUCHESNE, U APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OT TYPE OF ACTION Acidize Deepen Production (Start/Resume) Alter Casing Acidize Deepen Production (Start/Resume) Alter Casing Plug & Abandon Plug & Abandon Temporarily Abandon | |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final

On 3/15/11 MIRU Ross #29. Spud well @8:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 298.12'. On 3/16/11 cement with 160 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 6.5 barrels cement to pit. WOC.

RECEIVED

MAR 2 1 2011

DIV. OF OIL, GAS & MINING

| Title | | |
|--------------------|--------------------|---|
| Date 03/17/2011 | | |
| ERAL OR STATE OFFI | CE USE | |
| Title | Date | |
| Office | | |
| | ERAL OR STATE OFFI | Date 03/17/2011 ERAL OR STATE OFFICE USE Title Date |

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

| | | | 8 5/8" | CASING SET A | .T | 311.44 | - | | |
|---|------------|-------------|--------------|--------------|-------------------------|------------|-------------|-------------|---------|
| LAST CASING | 14" | SET AT | 6 | | OPERATO | IR | Newfield | Exploration | Company |
| DATUM | | | | | | | 4-14T-9-15H | | |
| DATUM TO CUT | | | 13 | • | | | Monumen | | |
| DATUM TO BRA | | | | • | | - | ···· | Ross #29 | |
| TD DRILLER | | LOGG | | | | | | | |
| HOLE SIZE | 12 1/4" | • | | - | | | | | |
| LOG OF CASING | 3 STRING: | | | | | | | | |
| PIECES | OD | ITEM - M | AKE - DESC | CRIPTION | WT/FT | GRD | THREAD | CONDT | LENGTH |
| 1 | | wellhead | | | | | | Α | 1.42 |
| 7 | 8 5/8" | casing (sho | oe jt 39.90) | | 24 | J-55 | STC | Α | 298.12 |
| 1 | 8 5/8" | giude shoe | , | | | | | Α | 0.9 |
| 2.774 (7.7 | | | | | | | | | |
| | | | | | | | | | |
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| | <u> </u> | | | | | | | | |
| CASING INVENT | FORY BAL. | | FEET | JTS | TOTAL LE | NGTH OF | STRING | | 300.44 |
| TOTAL LENGTH | | | 300.44 | 7 | LESS CUT | OFF PIEC | Æ | ! | 2 |
| LESS NON CSG | | | | | PLUS DAT | UM TO T/C | CUT OFF CS | G ' | 13 |
| PLUS FULL JTS. | | | 0 | | CASING SE | ET DEPTH | i | ! | 311.44 |
| | TOTAL | | 300.44 | 7 | ٦, | | | • | |
| TOTAL CSG. DE | L. (W/O TH | RDS) | | | $\left] \right\}$ COMPA | NRE | | | |
| · · · · · · · · · · · · · · · · · · · | TIMING | | | | 7 | | | | |
| BEGIN RUN CSC | G. | Spud | 8:00 AM | 3/16/2011 | GOOD CIR | C THRU J | OB | Yes | |
| CSG. IN HOLE | | | 10:00 AM | 3/16/2011 | Bbls CMT (| CIRC TO S | SURFACE 4 | 4 | |
| BEGIN CIRC | | | 10:00 AM | 3/16/2011 | RECIPROC | CATED PIP | Pl No | | |
| BEGIN PUMP CI | MT | | 10:12 AM | | 1 | | | | |
| BEGIN DSPL CI | | | 10:24 AM | 3/16/2011 | BUMPED F | ²LUG TO | 356 | | |

10:30 AM

PLUG DOWN

3/16/2011

| CEMENT US | ED | CEMENT COMPANY- BJ se | rvices |
|----------------|----------------|--|-----------------------|
| STAGE | # SX | CEMENT TYPE & ADDITIVES | |
| 1 | 160 | Class "G"+2%CaCl Mixed@ 15.8ppg W/1.17 yield returned 4bbls to pit | |
| | | Middle of first, top of second and third for a total of three. | |
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| | | | |
| | | | MAKE & SPACING |
| Middle of fire | st, top of sec | cond and third for a total of three. | |
| | | | |
| COMPANY R | EPRESENTA | ATIVE Branden Arnold | DATE 3/17/2011 |

OPERATOR: NEWFIELD PRODUCTION COMPANY

OPERATOR ACCT. NO.

N2695

03/23/11

ADDRESS: RT. 3 BOX 3630 **MYTON, UT 84052**

| ACTION | CURRENT | NEW ENTITY NO. | API NUMBER | WELL NAME | | | 3825111 | 001-0-1 | | | |
|----------------|---|--------------------------|--------------|---|-------------|----|-----------|---------------|---------------------------------------|---|-------------------|
| CODE | ENTITY NO. | ENTITY NO. | <u> </u> | 17.400 | QQ | SC | 1P | OCATION RG | COUNTY | SPUD DATE | EFFECTIVE DATE |
| В | 99999 | 17400 | 4301350150 | FEDERAL 16-29-8-16 | SESE | 29 | 88 | 16E | DUCHESNE | 3/11/2011 | 3/28/11 |
| WELL 1 C | OMMENTS: | | | | | | | | · · · · · · · · · · · · · · · · · · · | | 1-/0/0// |
| | GRRI | / | | | | | | | | | |
| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | | | LL LOCAT | ION | | SPUD | EFFECTIVE |
| | | Z.III I | (| GREATER MON BUTTE | QQ | sc | TP | RG | COUNTY | DATE | DATE |
| В | 99999 | 17400 | 4301350250 | M-1-9-16 | NESW | 1 | 98 | 16E | DUCHESNE | 3/12/2011 | 3/28/11 |
| | GRRV | | | BHC=S | WNE | | | | | - garden spile of the state of | - |
| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | QQ | | WELL | OCATION | | SPUD DATE | EFFECTIVE |
| | | | | GREATER MON BUTTE | - Qu | SC | पा | RG | COUNTY | DATE | , |
| В | 99999 | 17400 | 4301350242 | 14-14T-9-15H | SESW | 14 | 98 | 15E | DUCHESNE | 3/15/2011 | 3/28/11 |
| | 3 99999 17400 4301350242 14-14T-9-15H SESW 14 9S 15E DUCHES! BHL = NENE | | | | | | | | | | PITIAL |
| ACTION | CURRENT | NEW | API NUMBER | WELL NAME | | | NATE LL L | OCATION | | والمراز المنابات | |
| CODE | ENTITY NO. | ENTITY NO. | | *************************************** | QQ | sc | J.b | RG | COUNTY | DATE | DATE |
| Α | 99999 | 17985 | 4301350452 | UTE TRIBAL 8-16-4-1W | SENE | 16 | 48 | 1W | DUCHESNE | 3/18/2011 | 3/28/11 |
| | GRRV | | | | | | | - | | - | |
| CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | | | | OCATION | | SPUD | EFFECTIVE |
| | GHILLIAO, | ENTIT NO. | | | QQ | sc | TP | RG | COUNTY | DATE | DATE |
| Α | 99999 | 17986 | 4301350181 | UTE TRIBAL 11-2-4-4 | NESW | 2 | 48 | 4W | DUCHESNE | 3/22/2011 | 3/28/11 |
| | WSTC | | | | | | | | | | |
| ACTION | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | | | WELLL | OCATION | | SPUD | EFFECTIVE |
| Juzz | CIVITI NO. | ENTIT NO. | | | QQ | sc | TP | RG | COUNTY | DATE | DATE |
| Α | 99999 | 17987 | 4304751307 | UTE TRIBAL 5-3-4-1E | SWNW | 3 | 48 | 1E | UINTAH | 3/22/2011 | 3/28/11 |
| | GRRU | | | | | | . — | | | | |
| 10772 | | | ··· | | | | | | Ç | *************************************** | - |
| A- 1 B- 4 | DDES (See instructions on bac new entity for new well (single v well to existing entity (group or on one existing entity to anothe | well only) unit well) | | RECE | EIVED | | | | M | | Jentri Park |

NOTE: Use COMMENT section to explain why each Action Code was selected.

D - well from one existing entity to a new entity

E - ther (explain in comments section)

DIV. OF OIL, GAS & MINING

MAR 2 3 2011

Production Clerk

| | | | FORM 9 |
|---|---|--|--|
| | STATE OF UTAH | | FORM 9 |
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN | | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-68548 |
| SUNDI | RY NOTICES AND REPORTS | ON WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | osals to drill new wells, significantly deepen ougsel wells, or to drill horizontal laterals. Uses. | | 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: GREATER MON BUTTE 14-14T-9-15H |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION COM | 1PANY | | 9. API NUMBER: 43013502420000 |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 8 | | IE NUMBER: | 9. FIELD and POOL or WILDCAT: MONUMENT BUTTE |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 0510 FSL 2307 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSH | IP, RANGE, MERIDIAN: I Township: 09.0S Range: 15.0E Meridian: S | 3 | STATE: UTAH |
| 11. CHE | CK APPROPRIATE BOXES TO INDICAT | E NATURE OF NOTICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ☐ ACIDIZE | ☐ ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| 4/11/2011 | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| SUBSEQUENT REPORT | ☐ DEEPEN | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completion: | OPERATOR CHANGE | PLUG AND ABANDON | ☐ PLUG BACK |
| | ☐ PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| DRILLING REPORT Report Date: | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| Report Date: | ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: |
| Newfield requests a lateral section of the of 4-1/2" 11.6ppf N-8 well from 5,410' to 7 at approximately 90 into the 4-1/2" casin which includes 6 x 4 | pompleted operations. Clearly show all pertupproval to kick off and side trate. Greater Monument Butte 14-180 LTC casing stuck in the curv, 170' MD. The original KOP is 50° is 6,350' MD, the TD is 10,67 g string that is stuck in the hold 4-1/2" OD RockSeal II open ho and 1 x RockSeal IIS Anchor/pattached). | ck the existing curve and 4T-9-15H. There is 1,760 re and lateral section of the 3,390' MD, the landing poi 70' MD (5,821' TVD). Built e is a Packers Plus system le packers, 6 x 4-1/2" Obtacker. (See detailed tally | Accepted by the nt Oil, Gas and Mining |
| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE Descriptions Tech | |
| Mandie Crozier SIGNATURE | 435 646-4825 | Regulatory Tech DATE | |
| N/A | | 4/11/2011 | |

| | ewfield Exploration - GMB 14-14T-9- | | Landed @ | TMD | 10,668.00 |
|--------------|--|----------------------|-----------------------------|-------------------------|-------------|
| Item | Description | Length (ft) | (KB MD) | Accumulated | Proposed |
| Item | Description | Length (it) | 10648.00 | Accumulated | Порозец |
| | Guide Shoe | 0.91 | 10647.09 | 0.91 | |
| | Float Collar | 1.31 | 10645.78 | 2.22 | |
| | 6' Pup Jt | 6.15 | 10639.63 | 8.37 | |
| | Float Collar | 1.30 | 10638.33 | 9.67 | |
| 1 | Toe Circulating Sub | 2.74 | 10635.59 | 12.41 | 10636.00 |
| , | 15' Pup Jt | 15.14 | 10620.45 | 27.55 | 10030.00 |
| 1 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.78 | 10577.67 | 70.33 | 42.78 |
| ' | 15' Pup Jt | 15.41 | 10562.26 | 85.74 | 42.70 |
| 2 | Dual Hydraulic FracPort | 4.31 | 10557.95 | 90.05 | 10558.00 |
| _ | 15' Pup Jt | 15.45 | 10542.50 | 105.50 | 10330.00 |
| 2 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.75 | 10499.75 | 148.25 | 42.75 |
| | 15' Pup Jt | 15.45 | 10484.30 | 163.70 | 42.70 |
| 3 | RockSeal IIS Anchor / Packer | 7.09 | 10477.21 | 170.79 | 10477.00 |
| J | | 15.41 | 10477.21 | | 10477.00 |
| 3 | 15' Pup Jt 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 41.87 | | 186.20 228.07 | 41.87 |
| 3 | 15'. 4-1/2 11.0# Not LTC Liner | | 10419.93 10404.52 | | 41.07 |
| 4 | RockSeal II Packer 1 | 15.41 5.25 | | 243.48 248.73 | 10399.00 |
| 4 | | | 10399.27 10383.89 | | 10399.00 |
| 4 | 15' Pup Jt | 15.38 42.83 | | 264.11 | |
| 5 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner 1 Jt. 4-1/2" 11.6# N80 LTC Liner | | 10341.06 | 306.94 | 3 |
| 6 | 1 Jt. 4-1/2 11.6# N80 LTC Liner | 42.72 42.78 | 10298.34 | 349.66 | 128.33 |
| 0 | | | 10255.56 | 392.44 | 120.33 |
| 5 | 15' Pup Jt 1.750" Drillable FracPort | 15.38 2.63 | 10240.18 10237.55 | 407.82 410.45 | 10245.00 |
| - | 15' Pup Jt | 15.38 | 10222.17 | 425.83 | 10243.00 |
| 7 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.82 | 10179.35 | 468.65 | |
| 8 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.84 | 10136.51 | 511.49 | 3 |
| 9 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.85 | 10093.66 | 554.34 | 128.51 |
| 9 | 15' Pup Jt | 15.37 | 10093.00 | 569.71 | 120.51 |
| 6 | RockSeal II Packer 2 | 5.22 | 10073.07 | 574.93 | 10090.00 |
| U | 15' Pup Jt | 15.40 | 10073.07 | | 10090.00 |
| 10 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 41.86 | 10037.87 | 590.33 632.19 | |
| 11 | 1 Jt. 4-1/2 11.6# N80 LTC Liner | 42.64 | 9973.17 | 674.83 | 3 |
| 12 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 39.28 | 9933.89 | 714.11 | 123.78 |
| 14 | 15' Pup Jt | 15.42 | 9933.69 | 729.53 | 123.70 |
| 7 | 1.875" Drillable FracPort | 2.64 | 9915.83 | 732.17 | 9936.00 |
| | 15' Pup Jt | 15.43 | 9900.40 | 747.60 | 3330.00 |
| 13 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.78 | 9857.62 | 790.38 | 2 |
| 14 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.76 | 9814.97 | 833.03 | 85.43 |
| ' | 15' Pup Jt | 15.38 | 9799.59 | 848.41 | 00.40 |
| 8 | RockSeal II Packer 3 | 5.23 | 9799.39 | 853.64 | 9781.00 |
| J | 15' Pup Jt | 15.45 | 9778.91 | 869.09 | 3701.00 |
| 15 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.57 | 9778.91 | 911.66 | |
| 16 | 1 Jt. 4-1/2 11.6# N80 LTC Liner 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.57 | | | 3 |
| 17 | 1 Jt. 4-1/2 11.6# N80 LTC Liner 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.83 | 9693.51 9650.70 | 954.49 997.30 | 3 128.21 |
| 17 | 15'. 4-1/2 11.0# Not LTC Liner | 15.44 | 9635.26 | 1012.74 | 120.21 |
| 9 | 2.000" Drillable FracPort | 2.63 | 9632.63 | 1012.74 | 9627.00 |

| | 15' Pup Jt | 15.16 | 9617.47 | 1030.53 | |
|----|----------------------------------|-------|---------|---------|---------|
| 18 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.80 | 9574.67 | 1073.33 | |
| 19 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.63 | 9532.04 | 1115.96 | 3 |
| 20 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.69 | 9489.35 | 1158.65 | 128.12 |
| | 15' Pup Jt | 15.39 | 9473.96 | 1174.04 | |
| 10 | RockSeal II Packer 4 | 5.22 | 9468.74 | 1179.26 | 9472.00 |
| | 15' Pup Jt | 15.44 | 9453.30 | 1194.70 | |
| 21 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.68 | 9410.62 | 1237.38 | |
| 22 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.75 | 9367.87 | 1280.13 | 3 |
| 23 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 41.67 | 9326.20 | 1321.80 | 127.10 |
| | 15' Pup Jt | 15.41 | 9310.79 | 1337.21 | |
| 11 | 2.125" Drillable FracPort | 2.63 | 9308.16 | 1339.84 | 9317.00 |
| | 15' Pup Jt | 15.44 | 9292.72 | 1355.28 | |
| 24 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.65 | 9250.07 | 1397.93 | |
| 25 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.68 | 9207.39 | 1440.61 | 3 |
| 26 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.75 | 9164.64 | 1483.36 | 128.08 |
| | 15' Pup Jt | 15.39 | 9149.25 | 1498.75 | |
| 12 | RockSeal II Packer 5 | 5.22 | 9144.03 | 1503.97 | 9163.00 |
| | 15' Pup Jt | 15.14 | 9128.89 | 1519.11 | |
| 27 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 41.88 | 9087.01 | 1560.99 | 2 |
| 28 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 41.90 | 9045.11 | 1602.89 | 83.78 |
| | 15' Pup Jt | 15.46 | 9029.65 | 1618.35 | |
| 13 | 2.250" Drillable FracPort | 2.64 | 9027.01 | 1620.99 | 9008.00 |
| | 15' Pup Jt | 14.90 | 9012.11 | 1635.89 | |
| 29 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.78 | 8969.33 | 1678.67 | |
| 30 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 42.75 | 8926.58 | 1721.42 | 3 |
| 31 | 1 Jt. 4-1/2" 11.6# N80 LTC Liner | 40.85 | 8885.73 | 1762.27 | 126.38 |
| | 15' Pup Jt | 15.38 | 8870.35 | 1777.65 | |
| 14 | RockSeal II Packer 6 | 5.23 | 8865.12 | 1782.88 | 8854.00 |
| | 15' Pup Jt | 14.93 | 8850.19 | 1797.81 | |
| | | | | | |



NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT GMB 3-36-8-16H

Plan: Design #4

Standard Survey Report

11 APRIL, 2011





-500

500

1000

1500

2000

Vertical Section at 199.36° (1000 ft/in)

Project: DUCHESNE COUNTY, UT Site: GMB 14-14T-9-15H

Site: GMB 14-14T-9-15H Well: GMB 14-14T-9-15H Wellbore: GMB 14-14T-9-15H

Design: Design #4 Latitude: 40° 1' 30.180 N Longitude: 110° 12' 2.130 W

GL: 6271.00

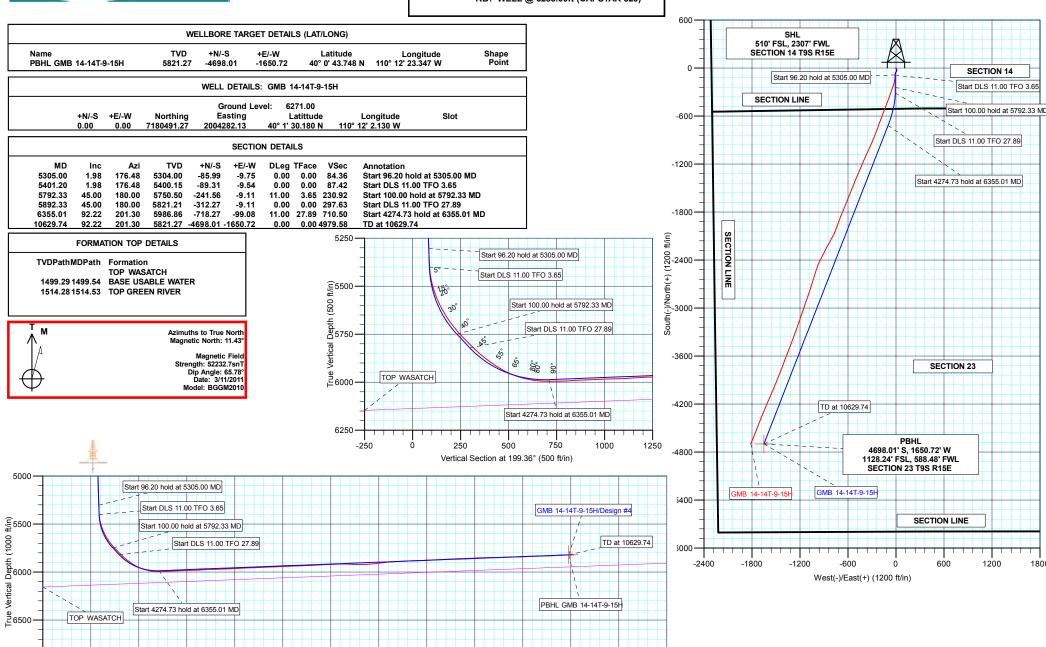
KB: WELL @ 6283.00ft (CAPSTAR 329)



Plan: Design #4 (GMB 14-14T-9-15H/GMB 14-14T-9-15H)

Created By: TRACY WILLIAMS Date:

17:06, April 11 2011



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6000



NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT GMB 14-14T-9-15H GMB 14-14T-9-15H

GMB 14-14T-9-15H

Plan: Design #4

Standard Planning Report

11 April, 2011





Weatherford International Ltd.

Planning Report



Database: EDM 2003.21 Single User Db Company: NEWFIELD EXPLORATION CO. Project: DUCHESNE COUNTY, UT GMB 14-14T-9-15H Site: Well: GMB 14-14T-9-15H

Wellbore: GMB 14-14T-9-15H

Design: Design #4 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329)

Minimum Curvature

| Project | DUCHESNE COUNTY, | UT |
|---------|------------------|----|
|---------|------------------|----|

Map System: US State Plane 1983 System Datum: Mean Sea Level

North American Datum 1983 Geo Datum:

Map Zone: Utah Central Zone

GMB 14-14T-9-15H Site

Northing: 7,180,491.27ft 40° 1' 30.180 N Site Position: Latitude: From: Lat/Long Easting: 2,004,282.13ft Longitude: 110° 12' 2.130 W **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 0.83°

Well GMB 14-14T-9-15H

Well Position +N/-S 0.00 ft Northing: 7,180,491.27 ft Latitude: 40° 1' 30.180 N +E/-W 0.00 ft Easting: 2,004,282.13 ft Longitude: 110° 12' 2.130 W

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,271.00 ft

GMB 14-14T-9-15H Wellbore

Field Strength **Magnetics Model Name Sample Date** Declination **Dip Angle** (°) (nT) (°) BGGM2010 52,233 3/11/2011 11.43 65.78

Design Design #4

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 5,305.00

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 199.36

| Plan Section | s | | | | | | | | | |
|---------------------------|-----------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|----------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 5,305.00 | 1.98 | 176.48 | 5,304.00 | -85.99 | -9.75 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,401.20 | 1.98 | 176.48 | 5,400.15 | -89.31 | -9.54 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,792.33 | 45.00 | 180.00 | 5,750.50 | -241.56 | -9.11 | 11.00 | 11.00 | 0.90 | 3.65 | |
| 5,892.33 | 45.00 | 180.00 | 5,821.21 | -312.27 | -9.11 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,355.01 | 92.22 | 201.30 | 5,986.86 | -718.27 | -99.08 | 11.00 | 10.21 | 4.60 | 27.89 | |
| 10,629.74 | 92.22 | 201.30 | 5,821.27 | -4,698.01 | -1,650.72 | 0.00 | 0.00 | 0.00 | 0.00 P | BHL GMB 14-14T |



3,764.00

3,854.00

3,945.00

4,036.00

4,126.00

4,217.00

4,308.00

4,398.00

4,489.00

4,580.00

4,670.00

1.58

1.45

0.62

0.62

1.10

1.67

0.48

1.01

1.41

1.89

1.19

204.21

214.89

178.55

167.65

171.47

192.83

212.30

207.95

189.27

187.91

231.90

3,763.39

3,853.35

3,944.34

4,035.33

4,125.32

4,216.30

4,307.28

4,397.27

4,488.25

4,579.21

4,669.18

Wellbore:

Design:

Weatherford International Ltd.

Planning Report



EDM 2003.21 Single User Db Database: Company: NEWFIELD EXPLORATION CO. Project: DUCHESNE COUNTY, UT Site: GMB 14-14T-9-15H Well:

Design #4

GMB 14-14T-9-15H GMB 14-14T-9-15H Local Co-ordinate Reference: **TVD Reference:** MD Reference: North Reference: **Survey Calculation Method:**

Well GMB 14-14T-9-15H WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329) Minimum Curvature

| saigii. | Doolgii ii i | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| lanned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313.00 | 1.10 | 163.91 | 312.98 | -2.89 | 0.83 | 2.45 | 0.35 | 0.35 | 0.00 |
| 405.00 | 1.14 | 171.52 | 404.96 | -4.64 | 1.21 | 3.98 | 0.17 | 0.04 | 8.27 |
| 496.00 | 0.97 | 157.15 | 495.95 | -6.25 | 1.64 | 5.35 | 0.34 | -0.19 | -15.79 |
| 588.00 | 1.10 | 163.96 | 587.93 | -7.81 | 2.19 | 6.64 | 0.19 | 0.14 | 7.40 |
| 679.00 | 1.19 | 152.27 | 678.91 | -9.49 | 2.87 | 8.00 | 0.27 | 0.10 | -12.85 |
| 771.00 | 1.27 | 158.16 | 770.89 | -11.28 | 3.70 | 9.42 | 0.16 | 0.09 | 6.40 |
| 862.00 | 1.32 | 149.32 | 861.87 | -13.12 | 4.61 | 10.85 | 0.23 | 0.05 | -9.71 |
| 952.00 | 1.10 | 148.27 | 951.85 | -14.74 | 5.59 | 12.06 | 0.25 | -0.24 | -1.17 |
| 1,043.00 | 0.92 | 157.06 | 1,042.84 | -16.16 | 6.33 | 13.15 | 0.26 | -0.20 | 9.66 |
| 1,134.00 | 0.92 | 140.67 | 1,133.82 | -17.40 | 7.08 | 14.07 | 0.29 | 0.00 | -18.01 |
| 1,224.00 | 1.19 | 148.31 | 1,223.81 | -18.75 | 8.03 | 15.03 | 0.34 | 0.30 | 8.49 |
| 1,315.00 | 1.14 | 150.42 | 1,314.79 | -20.34 | 8.97 | 16.22 | 0.07 | -0.05 | 2.32 |
| 1,406.00 | 1.01 | 164.49 | 1,405.77 | -21.90 | 9.63 | 17.47 | 0.32 | -0.14 | 15.46 |
| 1,496.00 | 1.32 | 163.00 | 1,495.76 | -23.66 | 10.15 | 18.96 | 0.35 | 0.34 | -1.66 |
| · | | 100.00 | 1,400.70 | 20.00 | 10.10 | 10.00 | 0.00 | 0.04 | 1.00 |
| | BLE WATER | 400.40 | 4 400 00 | 00.74 | 40.47 | 40.00 | 0.07 | 0.00 | 44.04 |
| 1,499.54 | 1.32 | 163.40 | 1,499.29 | -23.74 | 10.17 | 19.02 | 0.27 | -0.08 | 11.34 |
| TOP GREE | | 405.40 | 4 544 00 | 24.07 | 40.07 | 40.20 | 0.07 | 0.07 | 44.45 |
| 1,514.53 | 1.31 | 165.12 | 1,514.28 | -24.07 | 10.27 | 19.30 | 0.27 | -0.07 | 11.45 |
| 1,587.00 | 1.27 | 173.76 | 1,586.73 | -25.66 | 10.57 | 20.71 | 0.27 | -0.05 | 11.92 |
| 1,678.00 | 1.54 | 177.93 | 1,677.71 | -27.89 | 10.72 | 22.76 | 0.32 | 0.30 | 4.58 |
| 1,768.00 | 1.32 | 185.27 | 1,767.68 | -30.13 | 10.67 | 24.89 | 0.32 | -0.24 | 8.16 |
| 1,859.00 | 1.05 | 201.93 | 1,858.66 | -31.95 | 10.26 | 26.74 | 0.48 | -0.30 | 18.31 |
| 1,950.00 | 1.41 | 195.77 | 1,949.64 | -33.80 | 9.65 | 28.69 | 0.42 | 0.40 | -6.77 |
| 2,041.00 | 1.54 | 202.37 | 2,040.61 | -36.00 | 8.88 | 31.03 | 0.23 | 0.14 | 7.25 |
| 2,131.00 | 0.31 | 187.64 | 2,130.59 | -37.36 | 8.38 | 32.47 | 1.38 | -1.37 | -16.37 |
| 2,222.00 | 0.66 | 204.96 | 2,221.59 | -38.08 | 8.13 | 33.24 | 0.41 | 0.38 | 19.03 |
| 2,313.00 | 0.79 | 205.71 | 2,312.58 | -39.12 | 7.64 | 34.38 | 0.14 | 0.14 | 0.82 |
| 2,403.00 | 0.83 | 210.28 | 2,402.57 | -40.25 | 7.04 | 35.64 | 0.08 | 0.04 | 5.08 |
| 2,494.00 | 1.10 | 202.67 | 2,493.56 | -41.62 | 6.37 | 37.16 | 0.33 | 0.30 | -8.36 |
| 2,585.00 | 1.71 | 205.40 | 2,584.53 | -43.65 | 5.45 | 39.38 | 0.67 | 0.67 | 3.00 |
| 2,675.00 | 0.44 | 254.35 | 2,674.52 | -44.96 | 4.54 | 40.91 | 1.62 | -1.41 | 54.39 |
| 2,766.00 | 0.97 | 241.87 | 2,765.51 | -45.42 | 3.53 | 41.68 | 0.60 | 0.58 | -13.71 |
| 2,857.00 | 0.97 | 233.22 | 2,856.50 | -46.24 | 2.23 | 42.89 | 0.16 | 0.00 | -9.51 |
| 2,947.00 | 1.19 | 215.82 | 2,946.48 | -47.46 | 1.07 | 44.42 | 0.44 | 0.24 | -19.33 |
| 3,038.00 | 1.67 | 216.21 | 3,037.45 | -49.29 | -0.26 | 46.59 | 0.53 | 0.53 | 0.43 |
| 3,129.00 | 0.22 | 265.82 | 3,128.44 | -50.37 | -1.22 | 47.93 | 1.69 | -1.59 | 54.52 |
| 3,219.00 | 0.00 | 140.36 | 3,218.44 | -50.39 | -1.39 | 48.00 | 0.24 | -0.24 | 0.00 |
| 3,310.00 | 0.26 | 113.51 | 3,309.44 | -50.47 | -1.21 | 48.02 | 0.29 | 0.29 | 0.00 |
| 3,401.00 | 0.44 | 184.92 | 3,400.44 | -50.90 | -1.05 | 48.37 | 0.48 | 0.20 | 78.47 |
| 3,492.00 | 0.79 | 201.71 | 3,491.43 | -51.83 | -1.31 | 49.33 | 0.43 | 0.38 | 18.45 |
| 3,582.00 | 0.84 | 194.78 | 3,581.42 | -53.05 | -1.71 | 50.61 | 0.12 | 0.06 | -7.70 |
| 3,673.00 | 1.02 | 202.80 | 3,672.41 | -54.44 | -2.19 | 52.08 | 0.24 | 0.20 | 8.81 |
| 3,073.00 | 1.02 | 202.00 | 2 762 20 | 56.22 | 2.10 | 54.14 | 0.24 | 0.20 | 1.55 |

-56.33

-58.39

-59.83

-60.80

-62.13

-64.29

-65.91

-66.92

-68.74

-71.33

-73.38

-3.02

-4.18

-4.82

-4.71

-4.47

-4.64

-5.14

-5.71

-6.27

-6.65

-7.59

54.14

56.48

58.05

58.93

60.10

62.19

63.88

65.03

66.93

69.50

71.74

0.62

0.34

1.12

0.13

0.54

0.83

1.35

0.59

0.61

0.53

1.47

0.62

-0.14

-0.91

0.00

0.53

0.63

-1.31

0.59

0.44

0.53

-0.78

1.55

11.87

-39.93

-11.98

4.24

23.47

21.40

-4.83

-20.53

-1.49

48.88



8,200.00

92.22

201.30

5,915.39

Wellbore:

Weatherford International Ltd.

Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION CO.
Project: DUCHESNE COUNTY, UT
Site: GMB 14-14T-9-15H
Well: GMB 14-14T-9-15H

GMB 14-14T-9-15H GMB 14-14T-9-15H Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well GMB 14-14T-9-15H WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329) True

Minimum Curvature

| velibore. Design: | Design #4 | -9-1011 | | | | | | | |
|---|--|--|--|---|---|--|---|---|--------------------------------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | d Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,761.0 4,852.0 4,942.0 | 0.92 | 288.19 221.75 190.06 | 4,760.18 4,851.17 4,941.15 | -73.88 -74.35 -75.91 | -8.57 -9.29 -9.95 | 72.55 73.23 74.92 | 1.15 0.93 0.80 | -0.97 0.67 0.44 | 61.86 -73.01 -35.21 |
| 5,033.0 5,124.0 5,215.0 | 00 1.41 00 2.20 | 195.25 180.77 166.02 | 5,032.13 5,123.11 5,214.06 | -77.88 -79.95 -82.76 | -10.39 -10.67 -10.26 | 76.93 78.96 81.48 | 0.16 0.41 1.00 | -0.10 0.20 0.87 | 5.70 -15.91 -16.21 |
| 5,305.0 | 6 .20 hold at 5305.0 00 1.98 | 176.48 | 5,304.00 | -85.99 | -9.75 | 84.36 | 0.49 | -0.24 | 11.62 |
| | S 11.00 TFO 3.65 | | 5,55 | | | | | | |
| 5,401.2 | 20 1.98 | 176.48 | 5,400.15 | -89.31 | -9.54 | 87.42 | 0.00 | 0.00 | 0.00 |
| 5,450.0 5,500.0 5,550.0 5,600.0 5,650.0 | 12.84 00 18.34 00 23.84 | 179.15 179.58 179.75 179.84 179.90 | 5,448.77 5,497.97 5,546.11 5,592.75 5,637.44 | -93.27 -102.03 -115.47 -133.45 -155.83 | -9.44 -9.35 -9.28 -9.22 -9.17 | 91.13 99.36 112.01 128.96 150.06 | 11.00 11.00 11.00 11.00 11.00 | 10.99 11.00 11.00 11.00 11.00 | 5.47 0.85 0.35 0.19 0.12 |
| 5,700.0 5.750.0 | | 179.95 179.98 | 5,679.78 5,719.38 | -182.38 -212.88 | -9.13 -9.12 | 175.10 203.86 | 11.00 11.00 | 11.00 11.00 | 0.09 0.07 |
| -, | 0.00 hold at 5792 | | 5,7 19.50 | -212.00 | -9.12 | 203.00 | 11.00 | 11.00 | 0.07 |
| 5,792.3 5,800.0 | 33 45.00 | 180.00 180.00 | 5,750.50 5,755.92 | -241.56 -246.98 | -9.11 -9.11 | 230.92 236.04 | 11.00 0.00 | 11.00 0.00 | 0.05 0.00 |
| Start DL | S 11.00 TFO 27.8 | | · | | | | | | |
| 5,892.3 | 33 45.00 | 180.00 | 5,821.21 | -312.27 | -9.11 | 297.63 | 0.00 | 0.00 | 0.00 |
| 5,900.0 5,950.0 6,000.0 6,050.0 6,100.0 | 50.67 55.68 00 60.74 | 180.55 183.83 186.68 189.20 191.48 | 5,826.60 5,859.91 5,889.87 5,916.21 5,938.67 | -317.73 -354.96 -394.79 -436.86 -480.78 | -9.14 -10.61 -14.30 -20.19 -28.23 | 302.79 338.40 377.21 418.85 462.95 | 11.00 11.00 11.00 11.00 11.00 | 9.74 9.85 10.01 10.13 10.21 | 7.19 6.56 5.69 5.04 4.56 |
| 6,150.0 6,200.0 6,250.0 6,300.0 6,350.0 | 76.15 00 81.33 00 86.51 | 193.58 195.56 197.46 199.30 201.12 | 5,957.06 5,971.19 5,980.96 5,986.25 5,987.03 | -526.15 -572.54 -619.54 -666.70 -713.60 | -38.33 -50.40 -64.34 -80.01 -97.27 | 509.10 556.88 605.83 655.53 705.50 | 11.00 11.00 11.00 11.00 11.00 | 10.28 10.32 10.35 10.37 10.38 | 4.21 3.96 3.78 3.68 3.64 |
| | 74.73 hold at 635 | 5.01 MD | | | | | | | |
| 6,355.0 6,400.0 6,500.0 6,600.0 6,700.0 | 92.22 00 92.22 00 92.22 | 201.30 201.30 201.30 201.30 201.30 | 5,986.86 5,985.12 5,981.24 5,977.37 5,973.50 | -718.27 -760.15 -853.25 -946.35 -1,039.45 | -99.08 -115.41 -151.71 -188.01 -224.31 | 710.50 755.43 855.30 955.17 1,055.03 | 10.99 0.00 0.00 0.00 0.00 | 10.37 0.00 0.00 0.00 0.00 | 3.64 0.00 0.00 0.00 0.00 |
| 6,800.0 6,900.0 7,000.0 7,100.0 7,200.0 | 92.22 90 92.22 90 92.22 | 201.30 201.30 201.30 201.30 201.30 | 5,969.62 5,965.75 5,961.88 5,958.00 5,954.13 | -1,132.55 -1,225.65 -1,318.75 -1,411.85 -1,504.95 | -260.60 -296.90 -333.20 -369.50 -405.80 | 1,154.90 1,254.77 1,354.64 1,454.50 1,554.37 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 7,300.0 7,400.0 7,500.0 7,600.0 7,700.0 | 92.22 90 92.22 90 92.22 | 201.30 201.30 201.30 201.30 201.30 | 5,950.25 5,946.38 5,942.51 5,938.63 5,934.76 | -1,598.05 -1,691.14 -1,784.24 -1,877.34 -1,970.44 | -442.09 -478.39 -514.69 -550.99 -587.29 | 1,654.24 1,754.11 1,853.97 1,953.84 2,053.71 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 7,800.0 7,900.0 8,000.0 8,100.0 | 92.22 90 92.22 90 92.22 | 201.30 201.30 201.30 201.30 | 5,930.89 5,927.01 5,923.14 5,919.26 | -2,063.54 -2,156.64 -2,249.74 -2,342.84 | -623.58 -659.88 -696.18 -732.48 | 2,153.58 2,253.44 2,353.31 2,453.18 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |

-768.77

-2,435.94

2,553.05

0.00

0.00

0.00



Weatherford International Ltd.

Planning Report



Database: Company: EDM 2003.21 Single User Db NEWFIELD EXPLORATION CO. Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:** Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329)

Minimum Curvature

Project: DUCHESNE COUNTY, UT Site: GMB 14-14T-9-15H GMB 14-14T-9-15H Well: Wellbore: GMB 14-14T-9-15H Design #4 Design:

Planned Survey Measured Vertical Vertical Dogleg Build Turn Depth Depth +N/-S +E/-W Section Rate Rate Rate Inclination **Azimuth** (ft) (°/100ft) (°/100ft) (°/100ft) (ft) (ft) (ft) (°) (°) (ft) 8,300.00 92.22 201.30 5.911.52 -2.529.04 -805.07 2.652.92 0.00 0.00 0.00 8,400.00 92.22 201.30 5,907.64 -2,622.14-841.37 2,752.78 0.00 0.00 0.00 8,500.00 92.22 201.30 5,903.77 -2,715.24 -877.67 2,852.65 0.00 0.00 0.00 201.30 -2,808.340.00 8,600.00 92.22 5,899.90 -913.97 2,952.52 0.00 0.00 8,700.00 92.22 201.30 5,896.02 -2,901.43 -950.26 3,052.39 0.00 0.00 0.00 92.22 -2,994.53 -986.56 0.00 0.00 8,800.00 201.30 5,892.15 3,152.25 0.00 8,900.00 201.30 5,888.28 -3,087.63-1,022.863,252.12 0.00 0.00 92.22 0.00 9,000.00 92.22 201.30 5,884.40 -3,180.73 -1,059.16 3,351.99 0.00 0.00 0.00 201.30 5.880.53 9,100.00 92.22 -3.273.83-1,095.463,451.86 0.00 0.00 0.00 9,200.00 92.22 201.30 5,876.65 -3,366.93 -1,131.75 3,551.72 0.00 0.00 0.00 9,300.00 92.22 201.30 5,872.78 -3,460.03-1,168.053,651.59 0.00 0.00 0.00 92.22 201.30 5,868.91 -1,204.353,751.46 0.00 0.00 0.00 9.400.00 -3,553.139,500.00 92.22 201.30 5,865.03 -3,646.23-1,240.653,851.33 0.00 0.00 0.00 9,600.00 92.22 201.30 5,861.16 -3,739.33-1,276.943,951.20 0.00 0.00 0.00 201.30 0.00 9,700.00 92.22 5,857.29 -3,832.43 -1,313.24 4,051.06 0.00 0.00 -3,925.53 9,800.00 92.22 201.30 5.853.41 -1,349.54 4,150.93 0.00 0.00 0.00 -1,385.84 0.00 0.00 9,900.00 92.22 201.30 5,849.54 -4,018.62 4,250.80 0.00 201.30 5,845.67 0.00 0.00 0.00 10,000.00 92.22 -4.111.72 -1.422.144.350.67 10,100.00 92.22 201.30 5,841.79 -4,204.82 -1,458.434,450.53 0.00 0.00 0.00 201.30 5,837.92 -4,297.92 -1,494.73 4,550.40 0.00 0.00 10,200.00 92.22 0.00 10,300.00 92.22 201.30 5,834.04 -4,391.02 -1,531.03 4.650.27 0.00 0.00 0.00 10,400.00 92.22 201.30 5,830.17 -4,484.12 -1,567.334,750.14 0.00 0.00 0.00 10,500.00 92.22 201.30 5,826.30 -4,577.22 -1,603.63 4,850.00 0.00 0.00 0.00 201.30 4,949.87 10,600.00 92.22 5,822.42 -4,670.32-1,639.920.00 0.00 0.00 TD at 10629.74 92.22 0.00 0.00 10,629.74 201.30 5,821.27 -4,698.01 -1,650.724,979.57 0.00

| Design Targets Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|------------------|-----------------|-------------|---------------|---------------|------------------|-----------------|-----------------|-------------------|
| PBHL GMB 14-14T-9- | 0.00 | 0.00 | 5,821.27 | -4,698.01 | -1,650.72 | 7,175,769.79 | 2,002,699.84 | 40° 0' 43.748 N | 110° 12' 23.347 W |

plan hits target center

- Point

| Formations | | | | | | | |
|------------|---------------------------|---------------------------|---|-----------|-------------------------|----------------------------|--|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| | 1,499.54 1,514.53 | 1,515.00 | BASE USABLE WATER TOP GREEN RIVER TOP WASATCH | | -2.18 -2.18 -2.18 | 200.98 200.98 200.98 | |



Weatherford International Ltd.

Planning Report



Database:EDM 2003.21 Single User DbCompany:NEWFIELD EXPLORATION CO.Project:DUCHESNE COUNTY, UTSite:GMB 14-14T-9-15HWell:GMB 14-14T-9-15H

 Well:
 GMB 14-14T-9-15H

 Wellbore:
 GMB 14-14T-9-15H

 Design:
 Design #4

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well GMB 14-14T-9-15H WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329) True

Minimum Curvature

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coor +N/-S (ft) | dinates +E/-W (ft) | Comment |
|---------------------------|---------------------------|-----------------------------|--------------------------|----------------------------------|
| 5,305.00 | 5,304.00 | -85.99 | -9.75 | Start 96.20 hold at 5305.00 MD |
| 5,401.20 | 5,400.15 | -89.31 | -9.54 | Start DLS 11.00 TFO 3.65 |
| 5,792.33 | 5,750.50 | -241.56 | -9.11 | Start 100.00 hold at 5792.33 MD |
| 5,892.33 | 5,821.21 | -312.27 | -9.11 | Start DLS 11.00 TFO 27.89 |
| 6,355.01 | 5,986.86 | -718.27 | -99.08 | Start 4274.73 hold at 6355.01 MD |
| 10,629.74 | 5,821.27 | -4,698.01 | -1,650.72 | TD at 10629.74 |



NEWFIELD EXPLORATION CO.

DUCHESNE COUNTY, UT GMB 14-14T-9-15H GMB 14-14T-9-15H

GMB 14-14T-9-15H Design #4

Anticollision Report

11 April, 2011





Weatherford International Ltd.

Anticollision Report

TVD Reference:

MD Reference:



Company: NEWFIELD EXPLORATION CO.

Project: DUCHESNE COUNTY, UT Reference Site: GMB 14-14T-9-15H

Site Error: 0.00ft

Reference Well: GMB 14-14T-9-15H

Well Error: 0.00ft

Reference Wellbore GMB 14-14T-9-15H

Reference Design: Design #4

Local Co-ordinate Reference:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329)

North Reference: True

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 2003.21 Single User Db

Offset TVD Reference: Offset Datum

Reference Design #4

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: MD Interval 100.00ft Error Model: ISCWSA

Depth Range:UnlimitedScan Method:Closest Approach 3DResults Limited by:Maximum center-center distance of 11,000.00ftError Surface:Elliptical Conic

Warning Levels Evaluated at: 2.00 Sigma

| Sur | vey Tool Progran | n | Date 4/11/2011 | | |
|-----|--------------------|------------|--|------------|----------------------------------|
| | From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| | 313.00 5,305.00 | | Survey #1 (GMB 14-14T-9-15H) Design #4 (GMB 14-14T-9-15H) | MWD MWD | MWD - Standard MWD - Standard |

| Summary | | | | | | |
|--|--|-------------------------------------|-------------------------------------|------------------------------------|-------------------------|----------------|
| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Dista Between Centres (ft) | nce Between Ellipses (ft) | Separation Factor | Warning |
| GMB 14-14T-9-15H | | | | | | |
| GMB 14-14T-9-15H - GMB 14-14T-9-15H - GMB 14-14T- GMB 14-14T-9-15H - GMB 14-14T-9-15H - GMB 14-14T- | 5,305.00 10,629.74 | 5,305.00 10,609.10 | 0.00 152.28 | 0.00 -13.25 | 10,000.000 C 0.920 L | evel 1, ES, SF |

| Offset D | esign | GMB 1 | 4-14T-9- | 15H - GM | B 14-14 | T-9-15H - | GMB 14-14T- | 9-15H - G | MB 14-14 | T-9-15H | | | Offset Site Error: | 0.00 f |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---------------------------------|---------------------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|--------|
| | gram : 313 | | | | | | | | | | | | Offset Well Error: | 0.00 f |
| Refer | | Offs | | Semi Major | | | | | Dista | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbor +N/-S (ft) | e Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 5,305.00 | 5,304.00 | 5,305.00 | 5,304.00 | 0.00 | 0.00 | 115.32 | -85.99 | -9.75 | 0.00 | 0.00 | 0.00 | N/A C | cc | |
| 5,400.00 | 5,398.95 | 5,399.98 | 5,398.89 | 0.11 | 0.21 | 21.36 | -90.02 | -9.79 | 0.80 | 0.49 | 0.31 | 2.602 | | |
| 5,500.00 | 5,497.97 | 5,499.34 | 5,496.68 | 0.14 | 0.47 | 22.70 | -106.50 | -11.26 | 5.02 | 4.25 | 0.77 | 6.517 | | |
| 5,600.00 | 5,592.75 | 5,597.87 | 5,588.84 | 0.24 | 0.81 | 38.41 | -140.67 | -15.67 | 10.43 | 8.50 | 1.93 | 5.398 | | |
| 5,700.00 | 5,679.78 | 5,695.38 | 5,673.23 | 0.45 | 1.28 | 60.56 | -188.49 | -24.62 | 17.89 | 15.95 | 1.95 | 9.184 | | |
| 5,800.00 | 5,755.92 | 5,790.51 | 5,747.76 | 0.83 | 1.94 | 83.13 | -244.56 | -42.86 | 34.80 | 32.43 | 2.37 | 14.666 | | |
| 5,900.00 | 5,826.60 | 5,887.15 | 5,816.78 | 1.37 | 2.80 | 89.11 | -308.36 | -65.34 | 57.81 | 54.13 | 3.69 | 15.687 | | |
| 6,000.00 | 5,889.87 | 5,982.73 | 5,879.71 | 2.08 | 3.76 | 87.87 | -376.13 | -88.99 | 77.65 | 72.31 | 5.35 | 14.528 | | |
| 6,100.00 | 5,938.67 | 6,077.20 | 5,932.42 | 3.05 | 4.84 | 89.81 | -449.29 | -116.99 | 94.40 | 86.91 | 7.49 | 12.607 | | |
| 6,200.00 | 5,971.19 | 6,177.80 | 5,972.69 | 4.29 | 6.16 | 92.00 | -535.20 | -149.77 | 106.16 | 96.03 | 10.13 | 10.477 | | |
| 6,300.00 | 5,986.25 | 6,278.72 | 5,992.93 | 5.75 | 7.61 | 93.50 | -627.61 | -184.40 | 111.67 | 98.55 | 13.12 | 8.512 | | |
| 6,400.00 | 5,985.12 | 6,379.29 | 5,995.14 | 7.34 | 9.11 | 95.24 | -722.08 | -218.68 | 110.52 | 94.30 | 16.22 | 6.813 | | |
| 6,476.30 | 5,982.16 | 6,453.96 | 5,992.08 | 8.58 | 10.27 | 95.18 | -791.75 | -245.33 | 110.01 | 91.41 | 18.61 | 5.913 | | |
| 6,500.00 | 5,981.24 | 6,477.43 | 5,990.73 | 8.97 | 10.63 | 94.94 | -813.56 | -253.91 | 110.05 | 90.70 | 19.35 | 5.688 | | |
| 6,600.00 | 5,977.37 | 6,574.52 | 5,986.38 | 10.64 | 12.00 | 94.60 | -903.60 | -289.95 | 110.91 | 88.54 | 22.38 | 4.957 | | |
| 6,700.00 | 5,973.50 | 6,672.85 | 5,982.52 | 12.33 | 13.41 | 94.42 | -993.69 | -329.15 | 114.75 | 89.29 | 25.46 | 4.507 | | |
| 6,800.00 | 5,969.62 | 6,770.52 | 5,978.57 | 14.05 | 14.92 | 94.16 | -1,082.67 | -369.19 | 119.83 | 91.16 | 28.68 | 4.179 | | |
| 6,900.00 | 5,965.75 | 6,875.07 | 5,973.47 | 15.78 | 16.57 | 93.50 | -1,178.01 | -411.71 | 124.54 | 92.47 | 32.07 | 3.884 | | |
| 7,000.00 | 5,961.88 | 6,972.00 | 5,971.10 | 17.54 | 18.16 | 94.03 | -1,267.05 | -449.92 | 127.99 | 92.60 | 35.39 | 3.616 | | |
| 7,100.00 | 5,958.00 | 7,075.92 | 5,966.70 | 19.31 | 19.83 | 93.77 | -1,362.49 | -490.79 | 131.24 | 92.41 | 38.83 | 3.380 | | |
| 7,200.00 | 5,954.13 | 7,174.61 | 5,962.54 | 21.09 | 21.45 | 93.58 | -1,453.86 | -527.83 | 132.56 | 90.32 | 42.24 | 3.138 | | |
| 7,300.00 | 5,950.25 | 7,278.58 | 5,957.44 | 22.89 | 23.20 | 93.09 | -1,550.19 | -566.54 | 133.52 | 87.71 | 45.81 | 2.915 | | |
| 7,313.48 | 5,949.73 | 7,291.70 | 5,956.83 | 23.13 | 23.42 | 93.05 | -1,562.41 | -571.29 | 133.50 | 87.23 | 46.27 | 2.885 | | |
| 7,400.00 | 5,946.38 | 7,376.72 | 5,953.69 | 24.69 | 24.77 | 93.10 | -1,641.29 | -602.83 | 134.26 | 85.06 | 49.19 | 2.729 | | |



Weatherford International Ltd.

Anticollision Report

TVD Reference:

MD Reference:



Company: NEWFIELD EXPLORATION CO.

Project: DUCHESNE COUNTY, UT

Reference Site: GMB 14-14T-9-15H

Site Error: 0.00ft

Reference Well: GMB 14-14T-9-15H

Well Error: 0.00ft

Reference Wellbore GMB 14-14T-9-15H

Reference Design: Design #4

Local Co-ordinate Reference:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329)

North Reference: True

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 2003.21 Single User Db

Offset TVD Reference: Offset Datum

| | gram: 313 | | | 0 | | | | | D : 1 | | | | Offset Well Error: | 0.00 ft |
|-----------------------------------|----------------------|-----------------------------------|---------------------------------|---------------------------------|----------------|-----------------------------|------------------------|------------------------|-------------------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Refer easured Depth (ft) | | Offs Measured Depth (ft) | et Vertical Depth (ft) | Semi Major Reference (ft) | Offset | Highside Toolface (°) | Offset Wellbo | +E/-W | Dista Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 7,500.00 | 5,942.51 | 7,475.12 | 5,949.64 | 26.51 | 26.42 | 92.95 | (ft) -1,732.10 | (ft) -640.52 | 136.39 | 83.73 | 52.66 | 2.590 | | |
| 7,600.00 | 5,938.63 | 7,475.12 | 5,945.25 | 28.33 | 28.10 | 92.93 | -1,826.59 | -679.45 | 138.28 | 82.11 | | 2.462 | | |
| 7,700.00 | 5,934.76 | 7,679.58 | 5,941.64 | 30.16 | 29.83 | 92.73 | -1,921.93 | -715.98 | 137.71 | 77.98 | | 2.306 | | |
| 7,800.00 | 5,930.89 | 7,781.98 | 5,937.18 | 31.99 | 31.51 | 92.73 | -2,018.02 | -713.90 | 135.52 | 72.27 | 63.25 | 2.142 | | |
| 7,818.60 | 5,930.09 | 7,797.14 | 5,936.68 | 32.33 | 31.76 | 92.77 | -2,018.02 | -756.30 | 135.32 | 71.34 | 63.84 | 2.142 | | |
| 7,900.00 | 5,927.01 | 7,797.14 | 5,934.17 | 33.83 | 32.87 | 92.77 | -2,032.24 | -784.72 | 140.80 | 71.34 | 66.46 | 2.117 | | |
| 7,900.00 | 5,927.01 | 7,003.32 | 5,934.17 | 33.03 | 32.07 | 92.09 | -2,091.91 | -704.72 | 140.60 | 74.33 | 00.40 | 2.119 | | |
| 8,000.00 | 5,923.14 | 7,959.82 | 5,930.20 | 35.68 | 34.60 | 92.39 | -2,176.76 | -830.49 | 153.02 | 83.00 | 70.03 | 2.185 | | |
| 8,100.00 | 5,919.26 | 8,062.54 | 5,924.38 | 37.52 | 36.41 | 91.55 | -2,267.27 | -878.72 | 164.70 | 90.99 | 73.70 | 2.235 | | |
| 8,200.00 | 5,915.39 | 8,162.00 | 5,920.16 | 39.38 | 38.14 | 91.34 | -2,355.96 | -923.52 | 174.26 | 96.97 | 77.29 | 2.255 | | |
| 8,300.00 | 5,911.52 | 8,281.97 | 5,917.32 | 41.23 | 40.23 | 91.84 | -2,464.09 | -975.16 | 182.15 | 100.94 | 81.21 | 2.243 | | |
| 8,400.00 | 5,907.64 | 8,390.20 | 5,921.08 | 43.09 | 42.06 | 94.45 | -2,566.54 | -1,009.82 | 177.89 | 93.17 | 84.73 | 2.100 | | |
| 8,500.00 | 5.903.77 | 8.493.61 | 5.920.84 | 44.96 | 43.83 | 95.88 | -2.665.15 | -1,040.91 | 171.61 | 83.41 | 88.19 | 1.946 | | |
| 8,600.00 | 5,899.90 | 8,592.98 | 5,912.89 | 46.82 | 45.54 | 94.69 | -2,759.64 | -1,070.54 | 164.48 | 72.56 | 91.92 | 1.789 | | |
| 8,700.00 | 5,896.02 | 8,691.10 | 5,902.23 | 48.69 | 47.23 | 92.37 | -2,852.27 | -1,101.09 | 158.75 | 63.06 | 95.69 | 1.659 | | |
| 8,800.00 | 5,892.15 | 8,788.15 | 5,893.24 | 50.56 | 48.85 | 90.48 | -2,943.63 | -1,132.49 | 154.56 | 55.30 | 99.26 | 1.557 | | |
| 8,900.00 | 5,888.28 | 8,887.88 | 5,888.17 | 52.43 | 50.52 | 90.04 | -3,037.80 | -1,164.91 | 150.53 | 47.72 | | 1.464 L | evel 3 | |
| 9,000.00 | 5,884.40 | 8,988.48 | 5,883.75 | 54.31 | 52.24 | 89.83 | -3,132.71 | -1,198.00 | 146.91 | 40.50 | 106.42 | 1.381 L | evel 3 | |
| 9,100.00 | 5,880.53 | 9,087.64 | 5,880.35 | 56.18 | 53.90 | 90.00 | -3,226.34 | -1,230.45 | 143.10 | 33.15 | 109.96 | 1.301 L | | |
| 9,200.00 | 5,876.65 | 9,186.18 | 5,875.85 | 58.06 | 55.60 | 89.72 | -3,319.05 | -1,263.52 | 140.20 | 26.66 | 113.54 | 1.235 L | | |
| 9,300.00 | 5,872.78 | 9,285.30 | 5,871.32 | 59.94 | 57.33 | 89.43 | -3,412.08 | -1,297.43 | 137.98 | 20.83 | 117.15 | 1.178 L | | |
| 9,370.59 | - | 9,353.52 | 5,867.78 | 61.27 | 58.56 | 89.06 | -3,475.74 | -1,321.69 | 137.46 | 17.76 | 119.70 | 1.148 L | | |
| 9,400.00 | 5,868.91 | 9,382.74 | 5,866.02 | 61.82 | 59.08 | 88.79 | -3,502.91 | -1,332.30 | 137.48 | 16.71 | 120.77 | 1.138 L | evel 2 | |
| 9,500.00 | 5,865.03 | 9,483.36 | 5,861.00 | 63.70 | 60.81 | 88.33 | -3,596.43 | -1,369.09 | 137.82 | 13.46 | 124.36 | 1.108 L | | |
| 9,600.00 | 5,861.16 | 9,584.77 | 5,858.43 | 65.59 | 62.60 | 88.88 | -3,691.45 | -1,404.41 | 136.19 | 8.13 | | 1.064 L | | |
| 9,691.79 | 5,857.60 | 9,674.81 | 5,853.67 | 67.31 | 64.18 | 88.34 | -3,775.41 | -1,436.56 | 135.66 | 4.32 | | 1.033 L | | |
| 9,700.00 | | 9,682.78 | 5,853.31 | 67.47 | 64.31 | 88.32 | -3,782.83 | -1,439.45 | 135.66 | 4.04 | 131.63 | 1.031 L | | |
| 9,800.00 | 5,853.41 | 9,782.53 | 5,850.25 | 69.35 | 66.00 | 88.66 | -3,875.50 | -1,476.23 | 136.24 | 1.02 | 135.23 | 1.008 L | evel 2 | |
| 9,900.00 | 5.849.54 | 9,879.82 | 5,850.44 | 71.24 | 67.70 | 90.32 | -3,965.69 | -1,470.23 | 137.44 | -1.40 | 138.84 | 0.990 L | | |
| 10,000.00 | 5,845.67 | 9,980.72 | 5,846.80 | 73.13 | 69.47 | 90.43 | -4,058.70 | -1,512.67 | 139.91 | -2.59 | 142.50 | 0.980 L | | |
| 10,100.00 | 5,841.79 | 10,077.62 | 5,843.55 | 75.13 | 71.21 | 90.43 | -4,038.70 -4,147.72 | -1,589.74 | 143.20 | -2.93 | 146.12 | 0.982 L | | |
| 10,200.00 | | 10,077.02 | 5,839.60 | 76.90 | 73.02 | 90.59 | -4,147.72 | -1,630.24 | 147.28 | -2.54 | 149.83 | 0.983 L | | |
| 10 200 00 | 5,834.04 | 10,280.48 | 5,835.83 | 78.79 | 74.82 | 90.64 | -4,334.11 | 1 660 44 | 149.64 | -3.87 | 153.51 | 0.975 L | ovel 1 | |
| 10,300.00 | | | | | | | • | -1,669.41 | | | | | | |
| 10,400.00 | 5,830.17 | | 5,832.76 | 80.68 | 76.63 | 90.99 | -4,429.75 | -1,707.68 | 150.54 | -6.67 | 157.20 | 0.958 L | | |
| 10,465.51 | 5,827.63 | 10,448.83 | 5,830.29 | 81.92 | 77.79 | 91.01 | -4,490.59 | -1,731.23 | 150.38 | -9.21 | 159.60 | 0.942 L | | |
| 10,500.00 10,600.00 | 5,826.30 5,822.42 | 10,482.51 10,580.38 | 5,828.62 5,824.79 | 82.57 84.46 | 78.39 80.10 | 90.87 90.85 | -4,521.89 -4,612.60 | -1,743.55 -1,780.08 | 150.49 151.60 | -10.37 -12.86 | 160.86 164.45 | 0.936 L 0.922 L | | |
| 10,000.00 | | , | 5,024.79 | | | | | -1,700.00 | | | | 0.922 L | CVCI 1 | |
| 10,629.74 | 5,821.27 | 10,609.10 | 5,823.61 | 85.03 | 80.61 | 90.82 | -4,639.09 | -1,791.12 | 152.28 | -13.25 | 165.53 | 0.920 L | evel 1, ES, SF | |



Weatherford International Ltd.

Anticollision Report



NEWFIELD EXPLORATION CO. Company:

Project: DUCHESNE COUNTY, UT 0.00ft

Reference Site: GMB 14-14T-9-15H

Site Error:

Reference Well: GMB 14-14T-9-15H

Well Error: 0.00ft

Reference Wellbore GMB 14-14T-9-15H

Reference Design: Design #4

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329)

True

Minimum Curvature

2.00 sigma

EDM 2003.21 Single User Db

Offset Datum

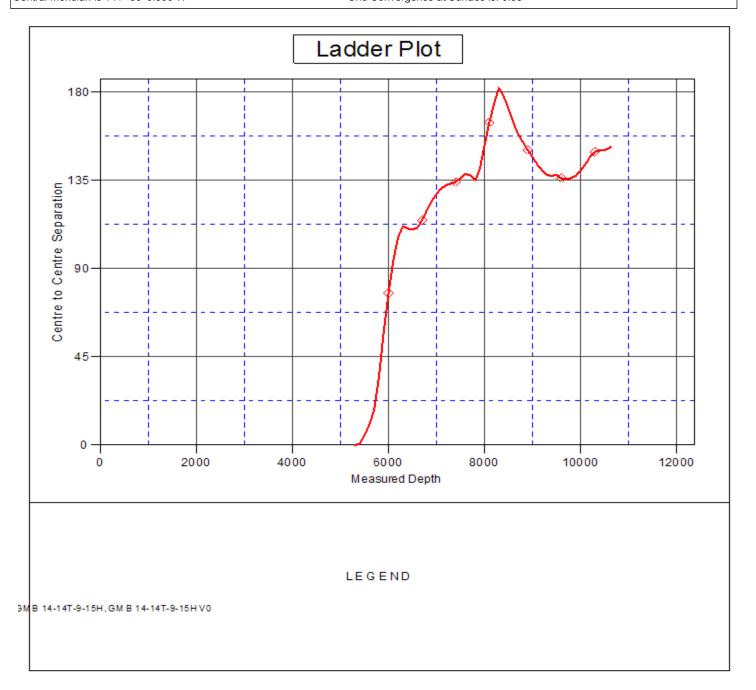
Reference Depths are relative to WELL @ 6283.00ft (CAPSTAR 329) Coordinates are relative to: GMB 14-14T-9-15H

Offset Depths are relative to Offset Datum

Central Meridian is 111° 30' 0.000 W°

Coordinate System is US State Plane 1983, Utah Central Zone

Grid Convergence at Surface is: 0.83°





Weatherford International Ltd.

Anticollision Report

TVD Reference:

MD Reference:



Company: NEWFIELD EXPLORATION CO.

Project: DUCHESNE COUNTY, UT

Reference Site: GMB 14-14T-9-15H

Site Error: 0.00ft

Reference Well: GMB 14-14T-9-15H

Well Error: 0.00ft

Reference Wellbore GMB 14-14T-9-15H

Reference Design: Design #4

Local Co-ordinate Reference:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329)

WELL @ 6283.00ft (CAPSTAR 329)

North Reference: True

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDM 2003.21 Single User Db

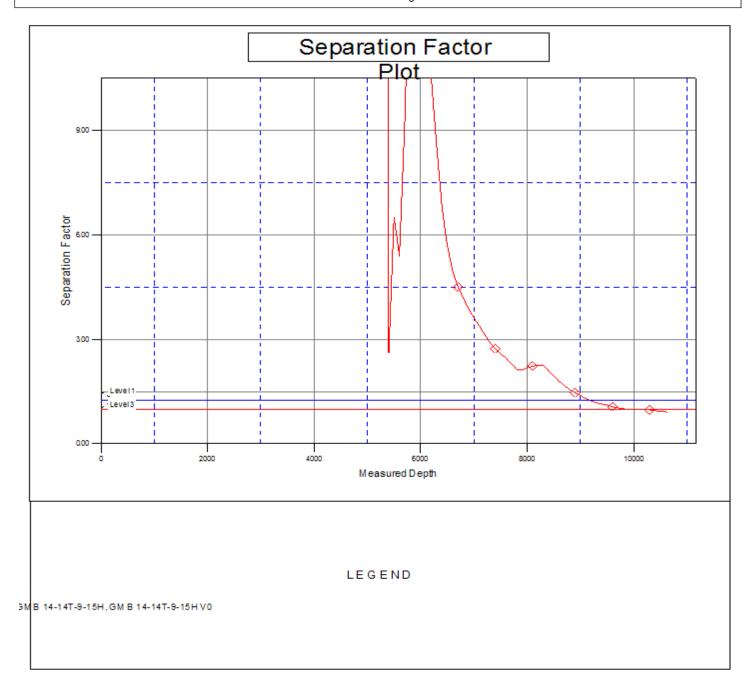
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 6283.00ft (CAPSTAR 329) Coordinates are relative to: GMB 14-14T-9-15H

Offset Depths are relative to Offset Datum Coordi

Coordinate System is US State Plane 1983, Utah Central Zone

Central Meridian is 111° 30' 0.000 W ° Grid Convergence at Surface is: 0.83°



| | STATE OF UTAH DEPARTMENT OF NATURAL RE DIVISION OF OIL, GAS AND | SOLRO MINING | VIA | 5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-68548 |
|--|--|-----------------|------------------------------|--|
| SUNDRY | NOTICES AND REPO | RTS ON | WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | Il new wells, significantly deepen existing wells bel I laterals. Use APPLICATION FOR PERMIT TO | | | 7. UNIT or CA AGREEMENT NAME; GMBU |
| I. TYPE OF WELL: OIL WELL | | | | 8. WELL NAME and NUMBER: GMBU 14-14T-9-15H |
| 2. NAME OF OPERATOR: | | | | 9. API NUMBER: |
| NEWFIELD PRODUCTION COM 3. ADDRESS OF OPERATOR: | PANY | | INVOVENDED. | 4301350242 10. FIELD AND POOL, OR WILDCAT: |
| Route 3 Box 3630 | CITY Myton STATE UT | ZIP 84052 | PHONE NUMBER 435.646.3721 | GREATER MB UNIT |
| 4. LOCATION OF WELL: | CITI MIYON STATE OT | ZH 04032 | 455,040,5721 | GREATI ENTITIES CITY |
| FOOTAGES AT SURFACE: | | | | COUNTY: DUCHESNE |
| OTR/OTR, SECTION, TOWNSHIP, RANGE | MERIDIAN: SESW, 14, T9S, R15E | | | STATE: UT |
| 11. CHECK APPROF | PRIATE BOXES TO INDICATE | E NATURE (| OF NOTICE, REPO | ORT, OR OTHER DATA |
| TYPE OF SUBMISSION | | TY | PE OF ACTION | |
| ☐ NOTICE OF INTENT | ACIDIZE | DEEPEN | | REPERFORATE CURRENT FORMATION |
| (Submit in Duplicate) | ALTER CASING | FRACTURE | TREAT | SIDETRACK TO REPAIR WELL |
| Approximate date work will | CASING REPAIR | NEW CONST | RUCTION | TEMPORARITLY ABANDON |
| | CHANGE TO PREVIOUS PLANS | OPERATOR - | CHANGE | TUBING REPAIR |
| | CHANGE TUBING | PLUG AND | ABANDON | VENT OR FLAIR |
| X SUBSEQUENT REPORT | CHANGE WELL NAME | PLUG BACK | : | WATER DISPOSAL |
| (Submit Original Form Only) | CHANGE WELL STATUS | PRODUCTIO | ON (START/STOP) | WATER SHUT-OFF |
| Date of Work Completion: | COMMINGLE PRODUCING FORMATIONS | RECLAMAT | TION OF WELL SITE | OTHER: - Weekly Status Report |
| 05/26/2011 | CONVERT WELL TYPE | RECOMPLE | TE - DIFFERENT FORMATION | |
| | MPLETED OPERATIONS. Clearly show a s completed on 5/26/2011, attached | - | - | /olumes, etc. |
| | | | | |
| | | | | RECEIVED |
| | | | | ** |
| | | | | JUN 1 5 2011 |
| | | | | |
| | | | | DIV. OF OIL, GAS & MINING |

TITLE Production Technician NAME (PLEASE PRINT) 06/01/2011 SIGNATURE

(This space for State use only)

I. TYPE OF WELL:

Daily Activity Report

Format For Sundry GMBU 14-14T-9-15H 3/1/2011 To 7/30/2011

5/6/2011 Day: 1

Completion

WWS #5 on 5/6/2011 - Cement csg. - MIRU WWS #5. NU Schaeffer BOP. RU The Perforators wireline. Set WRP @ 5590'. Dump bail 10' of sand on WRP. RU hot oil truck to csg. Pressure well to set Csg. Pkrs. Pressure test csg. & WRP to 3500 psi. RD wireline. RIH w/ port collar shifting tool & 2 7/8" tbg. from trailer (tallying & drifting). RU BJ Cement crew. Hold 500 psi on tbg. Open port collar. Establish circulation up surface csg. Cement well w/ 283 sks of lead (PL II+3%KCL+5#CSE+.5#CF+5#KOL+.5SMS+FP+SF) @ 11 ppg and 3.50 yield and 310 sks of tail (50:50:2+3%KCL+.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L). Returned approx. 60 bbls cement to pit. Close port collar. RIH w/ 4 jts 2 7/8" tbg. Reverse tbg. clean. Pull up to 5252'. ND BOP. Land tbg. on B-2 adapter flange. SWIFN.

Daily Cost: \$0

Cumulative Cost: \$34,710

5/12/2011 Day: 2

Completion

WWS #5 on 5/12/2011 - POOH w/ tbg. Run CBL. NU Isolation tool and frac valve. Pressure test Isolation tool and frac valve. - MIRU Western #5. ND adapter flange. NU Schaeffer BOP. POOH w/ tbg. RU The Perforators wireline and Heat Waves pump truck. Run CBL. RD The Perforators. ND Schaeffer BOP. NU Cameron Isolation tool and 7 1/6" frac valve. Pressure test csg., Isolation tool and frac valve to 6500 psi. Bleed off well. RD Heat Waves pump truck. SWIFN.

Daily Cost: \$0

Cumulative Cost: \$46,963

5/13/2011 Day: 3

Completion

WWS #5 on 5/13/2011 - Release RBP. LD N-80 tbg. - Open well, MU RBP retrievin ghead. TIH w/ 176 jts tbg. Circulate 16' sand off of WRBP. Latch onto & release RBP. TOOH laying down TBG. Get out of hole w/ 170 jts tbg. LD Retrieving head & RBP. RDMOSU WWS #5.

Daily Cost: \$0

Cumulative Cost: \$50,613

5/19/2011 Day: 4

Completion

WWS #5 on 5/19/2011 - RU & test frac & flowback equipment. Frac stgs #1-7. - TU frac tree & flowback equipment. Pressure test frac & flowback equipment to 7500 psi. MIRU BJ Services frac equipment. Frac stgs #1-7. SDFN

Daily Cost: \$0

Cumulative Cost: \$50,913

5/20/2011 Day: 5

Completion

WWS #5 on 5/20/2011 - Frac stgs #8-15. - Frac stg #8. BJ lost blender. SD to wait on replacement. Frac stgs #9-15. Drop last ball. Could not get ball to seat. RD BJ standpipe. Find ball stuck in 2' pup jt. Remove ball from pup jt. Drop ball into wellhead manually. SDFN

Daily Cost: \$0

Cumulative Cost: \$51,213

5/24/2011 Day: 6

Completion

Rigless on 5/24/2011 - Frac stg #16. Flowback well - Drop last ball. & frac stg #1. RD BJ Services frac equipment. Open well to pit for immediate flowback. - Drop last ball. & frac stg #1. RD BJ Services frac equipment. Open well to pit for immediate flowback. - Flowed back 8561 BBLS total. MIRU The Perforators crane. RD flowback equipment. ND frac tree. RU WLT. PU & attempt to run in hole w/ first WRP. Could not get plug through wireline flange. ND flange find top set of slips to have have set due to shear pins being sheared. Wait on second WRP. RIH w/ wireline & set WRP @ 5460'. POOH w/ wireline. RD WLT & crane. Wait on service unit SWS #8 for completion. - Flowed back 8561 BBLS total. MIRU The Perforators crane. RD flowback equipment. ND frac tree. RU WLT. PU & attempt to run in hole w/ first WRP. Could not get plug through wireline flange. ND flange find top set of slips to have have set due to shear pins being sheared. Wait on second WRP. RIH w/ wireline & set WRP @ 5460'. POOH w/ wireline. RD WLT & crane. Wait on service unit SWS #8 for completion.

Daily Cost: \$0

Cumulative Cost: \$51,513

5/25/2011 Day: 8

Completion

Stone #8 on 5/25/2011 - MIRUSU SWS #8. Pick up tbg. Circulate clean & load hole w/ 10# brine. - MIRUSU SWS #8. ND Frac tree. NU Schaffer BOP. RU work floor. Prep & tally tbg. MU retrieving head. TIH w/ tbg picking up & drifting tbg. Get in hole w/ 171 jts tbg to leave EOT @ 5358'. RU HOT. Circulate out oil & gas w/ 130 bbls 10# brine wtr. SDFN - MIRUSU SWS #8. ND Frac tree, NU Schaffer BOP, RU work floor, Prep & tally tbq, MU retrieving head, TIH w/ tbg picking up & drifting tbg. Get in hole w/ 171 jts tbg to leave EOT @ 5358'. RU HOT. Circulate out oil & gas w/ 130 bbls 10# brine wtr. SDFN - Open well. TBG & CSG 0 psi. PU 4 its tbg. Latch onto & release WRP. TOOH w/ tbg. Get out of hole w/ tbg. LD WRP. MU btm hole assembly & TIH w/ tbq detail @ follows. BP & collar, 3 jts tbg, de-sander, 4' tbg sub, 1 jt tbg, PSN, 1 it tbg, TAC, & 185 its tbg. Get in hole w/ tbg. RD workfloor. ND BOP. Set TAC. MU tbg hanger. Land tbg in wellhead w/ 18000# tension. NU wellhead. RDMOSU SWS #8. MIRU Weatherford Co-Rod unit. Had to rig down unit & re-spot spool & rod guide. SDFN - Open well. TBG & CSG 0 psi. PU 4 jts tbg. Latch onto & release WRP. TOOH w/ tbg. Get out of hole w/ tbg. LD WRP. MU btm hole assembly & TIH w/ tbg detail @ follows. BP & collar, 3 jts tbq, desander, 4' tbq sub, 1 jt tbq, PSN, 1 jt tbq, TAC, & 185 jts tbg. Get in hole w/ tbg. RD workfloor. ND BOP. Set TAC. MU tbg hanger. Land tbg in wellhead w/ 18000# tension. NU wellhead, RDMOSU SWS #8, MIRU Weatherford Co-Rod unit. Had to rig down unit & re-spot spool & rod quide. SDFN

Daily Cost: \$0

Cumulative Cost: \$626,361

5/26/2011 Day: 10

Completion

Rigless on 5/26/2011 - Run Co-Rod & PWOP - Open well. PU & prime new Weatherford 2 1/2" x 1 3/4' x 22' x 25' x 29' RHBC pump. RIH w/ co-rod detail @ follows. On/Off tool, 4' x 7/8" guided rod sub, & 5789' - 7/8" semi-eliptical Co-Rod. Get in hole w/ rod string. Space out pump w/ 2 - 4', 1 - 6', & 8' x 7/8" pony subs. MU new Weatherford 1 1/2" x 26' polished rod. RU pumping unit. Fill & test tbg to 200 psi w/ hot oiler. Stroke test pump to 800 psi w/ unit. Good pump action. RDMO Co-Rod unit. PWOP @ 2:30 PM W/ 144" SL @ 5 SPM. FINAL REPORT! **Finalized**

Daily Cost: \$0

Cumulative Cost: \$723,402

Pertinent Files: Go to File List

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

CONFIDENTIA

5. Lease Serial No.

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

| | | | | | | | | | | | | | | UIL | J-6854 | 18 | | |
|---------------------------|--------------------------|-----------------|------------------|-----------------------|--------------|------------------|---------------|-----------|---------------------------|------------|---------|----------------------|---------|-----------|-----------------|---------------------------|----------------------|------------------|
| la. Type of | Well | | Oil Well | . P (| Gas Well | Dry Deepen | 0 | | Пъ | C D | | - | | 6. If | Indian | , Allottee or | ribe N | ame |
| b. Type of | Completion | | Other: | ı L | work Over | □ Deepen □ | _ PI | ug back | | i. Resvi., | , | | | 7. U | nit or (| CA Agreemen | t Name | and No. |
| 2. Name of NEWFIEL | Operator | | | | | | | | | | | | , | 8. L | ease Na | ame and Well | | |
| NEWFIEL 3. Address | DEXPLO | PRATIC | ON COM | IPANY | | | | 13.0 | a. Phone l | No linel | uda ar | aa coda | | | BU 14 FI Wel | -14T-9-15H | | |
| | 1401 17TH | | | | | | | (| 435) 646 | | иис иг | eu coue, | | 43-0 | 13-50 | 242 | | |
| 4. Location | of Well (R | Report i | location cl | learly an | d in accord | lance with Feder | ral re | equiremei | | BHL | | | | | | nd Pool or Ex NT BUTTE | | ry |
| At surfac | ^e 510' FS | SL & 2 | 307' FIJL | SE/S | E) SEC. 1 | 14, T9S, R15E | E (U | TU-6854 | 4 8) | BY F | EA | 557. | | 11. | Sec., T. | , R., M., on E | | |
| | | | | 2001 F 1 | | · | ••• | | T00 D | /1 17 | FL 1 00 | E40\ | | | | SEC. | | 6, R15E |
| | | | | | | ' FWL (NE/NV | | | | 15E (U 1 | 0-69 | 040) | | | - | or Parish | | S. State |
| At total d | _{epth} 1095 | FSL | | | | EC. 23, T9S, F | R15E | | | | | | | | CHESI | | U | |
| 14. Date Sp 03/15/201 | | | | . Date T 5/04/20 | | | | | Date Comp D & A | | | | | 627 | Elevation 1' GL | ons (DF, RK 6284' KB | B, RT, | GL)* |
| 18. Total D | epth: MI |) 100 T) -59 | 650' 28'_5_8, | 21) | 19. Ph | ıg Back T.D.: | MD TVI | 10630 | 22) | | 20. D | epth Bri | dge Plu | - | MD TVD | | | |
| 21. Type E | lectric & Ot | her Me | chanical La | ogs Run | (Submit co | py of each) M | UL | クデア | CIH | v | | Vas well | | Z N | 0 🗆 | Yes (Submi | | |
| | • | • | | | | EUTRON,GR, | CAL | IPER." | CMT BO | ND | | Vas DST Direction | | /? □ N | 。 「 | Yes (Submi Yes (Submi | t report) t copy) | <u> </u> |
| 23. Casing | | | | | s set in wel | | $\overline{}$ | Stage C | ementer | No. | of Sks | & I | Slurr | / Vol | | T | | |
| Hole Size | Size/Gr | | Wt. (#/ft. | | op (MD) | Bottom (MI | " | | pth | Туре | of Cer | ment | | 3L) | Cen | nent Top* | | Amount Pulled |
| 12-1/4" | 8-5/8" J | | 24# | 0 | _ | 311' | | | | 160 C | | | | | 00.41 | | | |
| 7-7/8" 6-1/8" | 5-1/2" N 4-1/2" F | | 17# | 6300 | יר | 10630' | \dashv | | | 283 P | | | | | 234' | | | |
| 0-1/0 | 7-1/2 1 | -110 | 11.0# | 0300 | - | 10030 | \dashv | | | 01000 | 3,001 | | | | | - | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 24. Tubing Size | Record | Set (M | D) Pac | ker Dep | th (MD) | Size | | Depth Se | et (MD) | Packer | Depth (| (MD) | Siz | ze | Dep | th Set (MD) | P | acker Depth (MD) |
| 2-7/8" | EOT@ | 9 598 | | 5806 | | | | | | | | | | | | | | |
| 25. Produci | ng Intervals Formatio | | | т | `op | Bottom | 2 | | rforation I forated In | | | S | ize | No. I | Ioles | 7 | Perf | Status |
| A) Green | | *** | | 6485' | SP | 10551' | 1 | 6485-10 | | | | 16.9 s | | 16 | 10100 | Sliding SI | | |
| B) | | | | | | | | | | | | | | | | | | |
| C) . | | | | | | | \perp | , | | | | | | <u> </u> | | | | · |
| D) | T | | 0 | n | | | | | | | | | , | | | | | |
| 27. Acid, F | Depth Inter | | , Cement : | squeeze, | , etc. | | | | | Amount a | and Ty | pe of M | aterial | | | | | |
| 6485-1055 | 51' | | | Frac w/ | 478495# | s 100 mesh a | nd 4 | 178168# | 40/70 s | and in | 37426 | bbls c | f Slick | water flu | id, in ' | 16 stages. | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 28. Product | ion - Interv | al A | | | | , | | | | | | | | | | | | |
| Date First Produced | Test Date | Hours Tested | | luction | Oil BBL | | Wate BBL | | Oil Grav Corr. Al | | Ga | s avity | | luction M | | 22' x 25' x 2 | וסי ביי | BC Bump |
| 5/22/11 | 6/1/11 | 24 | 1 1100 | | 277 | 115 | 100 | | Coll. Al | | 01, | avity | | | | Guided Ro | | |
| Choke | Tbg. Press. | | 24 H | ĺr. | Oil | | Wate | | Gas/Oil | | We | ell Status | } | | | | | |
| Size | Flwg. SI | Press. | Rate | | BBL | MCF | BBL | | Ratio | | Pf | RODU | CING | | | | | |
| 300 D 1 | tion Terr | ual P | | | <u></u> | | | | | | | | | | | | | |
| 28a. Produc Date First | | Hours | Test | | Oil | Gas | Wate | er | Oil Grav | | Ga | s | Proc | luction M | lethod | | | |
| Produced | | Tested | l Prod | uction | BBL | MCF | BBL | , | Corr. Al | PI | Gra | avity | | | | | | |
| 011 | The P | | - | | 0:1 | 0 | 117 - | | 010" | | 177 | .11 C+ - | | | | RECE | = \/ | En |
| Choke Size | Tbg. Press. Flwg. | Csg. Press. | 24 H Rate | | Oil BBL | 1 | Wate BBL | | Gas/Oil Ratio | | We | ell Status | 5 | | | | | |
| | SI | | - | → | | | | | | | | | | | | APR 1 | 7 21 |)12 |
| | L | J | | | L | L | Ц | | | | | | | | | | | |

| 201 2 | | 1.0 | | | | | | | | | <u> </u> | |
|------------------------|----------------------------|----------------------------|----------------------------------|--------------|----------------|---|--------------------------------|-------------|-----------------------------------|-----------------------------------|---------------------------------------|--------------|
| | uction - Inte | Hours | Test | Oil | Gas | Water | Oil Gra | avity | Gas | Production Method | | |
| Produced | x cot Buto | Tested | Production | BBL | MCF | BBL | Corr. A | | Gravity | | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oi Ratio | 1 | Well Status | | | |
| | uction - Inte | | | | | | | | | | | |
| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gra Corr. A | | Gas Gravity | Production Method | | |
| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oi Ratio | i | Well Status | | | |
| 29. Dispo | sition of Gas | s (Solid, u | sed for fuel, ve | ented, etc., |) | | | | | | | |
| SOLD AND | USED FOR F | UEL | | | | | | | | | | |
| 30. Sumr | nary of Poro | us Zones | (Include Aqui | ifers): | | | | | 31. Format | ion (Log) Markers | | |
| | ing depth int | | | | | l intervals and al ving and shut-in | | | GEOLOG | IICAL MARKERS | | |
| For | nation | Тор | Bottom | | De | scriptions, Conte | ents etc. | | | Name | Тор | |
| | | 100 | Bottom | | | | | | | | Meas. De | pth |
| GREEN RI | VER | 6485' | 10551' | | | | | | GARDEN GU GARDEN GU | | 3595' 3833' | |
| | | | | | | | | | GARDEN GU POINT 3 | JLCH 2 | 3937;' 4187' | |
| | | | | | | | | | X MRKR Y MRKR | | 4457' 4492' | |
| | | | | | | | | | DOUGLAS O BI CARBON | | 4598' 4833' | |
| | | | | | | | | | B LIMESTOI CASTLE PE | | 4942' 5508' | |
| | | | | | | | | | BASAL CAR | BONATE | 6094' | |
| | | | | | | | | | | | | |
| 52. Addi | ionai remais | es (meiude | plugging pro | cedure): | | | | | | | | |
| 33. Indica | ate which ite | ms have b | een attached b | y placing | a check in the | ne appropriate bo | oxes: | | | | | |
| | | | (I full set req | | _ | Geologic Repo | | DST Re | _{port} Drilling Daily | ✓ Directional Survey Activity | | |
| | | | | | rmation is co | mplete and corr | | | | records (see attached instruction | ons)* | |
| | lame (please | (\cap) | ennifer Peatr | | | | Title F | Production | n Technician | | · · · · · · · · · · · · · · · · · · · | |
| s | ignature _ | | WII | M | | · | Date 0 | 3/14/2012 | | | | |
| Title 18 U | S.C. Section | n 100 i and dulent stat | d Title 43 U.S tements or rep | .C. Section | n 1212, make | e it a crime for a matter within its | any person k s jurisdiction | cnowingly a | and willfully to | o make to any department or ag | gency of the United Sta | ites any |
| | d on page 3) | | | | | | | | | | (Form 3160 |)-4, page 2) |

2000 Oil Drive Casper, WY 82604 Tel. 307-268-7900 Fax 307-235-3958

Date: April 29, 2011

Attention: Lucy Chavez-Naupoto

Re:

Newfield Exploration GMB 14-14T-9-15H

DUCHESNE COUNTY, UT

Attached to this letter is a copy of the surveys taken by Precision Energy Services, a Weatherford International Ltd. company, MWD equipment on the subject well. The surveys from 313' to 10660.47' MD represent, to the best of our knowledge, a true and accurate survey of the wellbore at the time the survey was run.



Tracy Williams Well Planning Department

Cc:

Hans Wychgram **Newfield Exploration**

CONFIDENTIAL



Weatherford International Ltd.

Survey Report



NEWFIELD EXPLORATION CO. Company:

Project:

DUCHESNE COUNTY, UT

Site:

GMB 14-14T-9-15H

Well:

GMB 14-14T-9-15H GMB 14-14T-9-15H

Wellbore: Design:

GMB 14-14T-9-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329)

WELL @ 6283.00ft (CAPSTAR 329)

True

Minimum Curvature

EDM 2003.21 Single User Db

DUCHESNE COUNTY, UT Project

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983

Map Zone:

Utah Central Zone

System Datum:

Mean Sea Level

Site GMB 14-14T-9-15H

Site Position: From:

Lat/Long

Northing: Easting:

7,180,491.27 ft

Latitude:

40° 1' 30.180 N

Position Uncertainty:

Slot Radius:

2,004,282.13ft

Longitude:

110° 12' 2.130 W

0.00 ft

Grid Convergence:

0.83°

Well GMB 14-14T-9-15H

+E/-W

Well Position +N/-S 0.00 ft

Northing:

7,180,491,27 ft

Latitude:

40° 1' 30.180 N

Position Uncertainty

0.00 ft

Easting:

2,004,282.13 ft

Longitude:

110° 12' 2.130 W

52,233

0.00 ft

Wellhead Elevation:

Ground Level:

65.78

6,271.00 ft

Wellbore

GMB 14-14T-9-15H

Magnetics

Model Name

GMB 14-14T-9-15H

Sample Date

Declination

(°)

11.43

Dip Angle (°)

Field Strength

(nT)

BGGM2010

Design **Audit Notes:**

1.0

Phase:

Version:

3/11/2011

ACTUAL

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (ft) 0.00

+N/-S (ft) 0.00

+E/-W (ft) 0.00

Direction (°)

200.98

Survey Program

Date 4/8/2011

From (ft)

To (ft)

Survey (Wellbore)

Tool Name

Description

313.00

10.670.00 Survey #1 (GMB 14-14T-9-15H)

MWD

MWD - Standard

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 313.00 | 1.10 | 163.91 | 312.98 | -2.89 | 0.83 | 2.40 | 0.35 | 0.35 | 0.00 |
| 405.00 | 1.14 | 171.52 | 404.96 | -4.64 | 1.21 | 3.90 | 0.17 | 0.04 | 8.27 |
| 496.00 | 0.97 | 157.15 | 495.95 | -6.25 | 1.64 | 5.24 | 0.34 | -0.19 | -15.79 |
| 588.00 | 1.10 | 163.96 | 587.93 | -7.81 | 2.19 | 6.51 | 0.19 | 0.14 | 7.40 |
| 679.00 | 1.19 | 152.27 | 678.91 | -9.49 | 2.87 | 7.83 | 0.27 | 0.10 | -12.85 |
| 771.00 | 1.27 | 158.16 | 770.89 | -11.28 | 3.70 | 9.21 | 0.16 | 0.09 | 6.40 |
| 862.00 | 1.32 | 149.32 | 861.87 | -13.12 | 4.61 | 10.60 | 0.23 | 0.05 | -9.71 |
| 952.00 | 1.10 | 148.27 | 951.85 | -14.74 | 5.59 | 11.76 | 0.25 | -0.24 | -1.17 |
| 1,043.00 | 0.92 | 157.06 | 1,042.84 | -16.16 | 6.33 | 12.82 | 0.26 | -0.20 | 9.66 |
| 1,134.00 | 0.92 | 140.67 | 1,133.82 | -17.40 | 7.08 | 13.71 | 0.29 | 0.00 | -18.01 |
| 1,224.00 | 1.19 | 148.31 | 1,223.81 | -18.75 | 8.03 | 14.63 | 0.34 | 0.30 | 8.49 |
| 1,315.00 | 1.14 | 150.42 | 1,314.79 | -20.34 | 8.97 | 15.78 | 0.07 | -0.05 | 2.32 |

CONFIDENTIAL



Weatherford International Ltd.

Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site:

GMB 14-14T-9-15H

Well:

GMB 14-14T-9-15H GMB 14-14T-9-15H

Wellbore: Design:

GMB 14-14T-9-15H

Local Co-ordinate Reference:

Well GMB 14-14T-9-15H

TVD Reference:

WELL @ 6283.00ft (CAPSTAR 329)

MD Reference:

WELL @ 6283.00ft (CAPSTAR 329)

North Reference: True

Survey Calculation Method:

Minimum Curvature

Database:

EDM 2003.21 Single User Db

| Survey | | a i ny ajeon Nata diskasan | u na stanka na u nasni Mersek | | organismi Salayansa Pro | | ve e nasovej s Jego šitovei š | er egy og fingeligen. Er skiller fra skiller | |
|---------------------------|--------------------|-------------------------------|----------------------------------|---------------|----------------------------|-----------------------------|----------------------------------|---|---------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 1,406.00 | 1.01 | 164.49 | 1,405.77 | -21.90 | 9.63 | 17.00 | 0.32 | -0.14 | 15.46 |
| 1,496.00 | 1.32 | 163.00 | 1,495.76 | -23.66 | 10.15 | 18.45 | 0.35 | 0.34 | -1.66 |
| 1,587.00 | 1.27 | 173.76 | 1,586.73 | -25.66 | 10.57 | 20.18 | 0.27 | -0.05 | 11.82 |
| 1,678.00 | 1.54 | 177.93 | 1,677.71 | -27.89 | 10.72 | 22.20 | 0.32 | 0.30 | 4.58 |
| 1,768.00 | 1.32 | 185.27 | 1,767.68 | -30.13 | 10.67 | 24.31 | 0.32 | -0.24 | 8.16 |
| 1,859.00 | 1.05 | 201.93 | 1,858.66 | -31.95 | 10.26 | 26.15 | 0.48 | -0.30 | 18.31 |
| 1,950.00 | 1.41 | 195.77 | 1,949.64 | -33.80 | 9.65 | 28.10 | 0.42 | 0.40 | -6.77 |
| 2,041.00 | 1.54 | 202.37 | 2,040.61 | -36.00 | 8.88 | 30.44 | 0.23 | 0.14 | 7.25 |
| 2,131.00 | 0.31 | 187.64 | 2,130.59 | -37.36 | 8.38 | 31.89 | 1.38 | -1.37 | -16.37 |
| 2,222.00 | 0.66 | 204.96 | 2,221.59 | -38.08 | 8.13 | 32.65 | 0.41 | 0.38 | 19.03 |
| 2,313.00 | 0.79 | 205.71 | 2,312.58 | -39.12 | 7.64 | 33.80 | 0.14 | 0.14 | 0.82 |
| 2,403.00 | 0.83 | 210.28 | 2,402.57 | -40.25 | 7.04 | 35.06 | 0.08 | 0.04 | 5.08 |
| 2,494.00 | 1.10 | 202.67 | 2,493.56 | -41.62 | 6.37 | 36.58 | 0.33 | 0.30 | -8.36 |
| 2,585.00 | 1.71 | 205.40 | 2,584.53 | -43.65 | 5.45 | 38.81 | 0.67 | 0.67 | 3.00 |
| 2,675.00 | 0.44 | 254.35 | 2,674.52 | -44.96 | 4.54 | 40.35 | 1.62 | -1.41 | 54.39 |
| 2,766.00 | 0.97 | 241.87 | 2,765.51 | -45.42 | 3.53 | 41.14 | 0.60 | 0.58 | -13.71 |
| 2,857.00 | 0.97 | 233.22 | 2,856.50 | -46.24 | 2.23 | 42.38 | 0.16 | 0.00 | -9.51 |
| 2,947.00 | 1.19 | 215.82 | 2,946.48 | -47.46 | 1.07 | 43.93 | 0.44 | 0.24 | -19.33 |
| 3,038.00 | 1.67 | 216.21 | 3,037.45 | -49.29 | -0.26 | 46.12 | 0.53 | 0.53 | 0.43 |
| 3,129.00 | 0.22 | 265.82 | 3,128.44 | -50.37 | -1.22 | 47.47 | 1.69 | -1.59 | 54.52 |
| 3,219.00 | 0.00 | 140.36 | 3,218.44 | -50.39 | -1.39 | 47.55 | 0.24 | -0.24 | 0.00 |
| 3,310.00 | 0.26 | 113.51 | 3,309.44 | -50.47 | -1.21 | 47.55 | 0.29 | 0.29 | 0.00 |
| 3,401.00 | 0.44 | 184.92 | 3,400.44 | -50.90 | -1.05 | 47.90 | 0.48 | 0.20 | 78.47 |
| 3,492.00 | 0.79 | 201.71 | 3,491.43 | -51.83 | -1.31 | 48.86 | 0.43 | 0.38 | 18.45 |
| 3,582.00 | 0.84 | 194.78 | 3,581.42 | -53.05 | -1.71 | 50.14 | 0.12 | 0.06 | -7.70 |
| 3,673.00 | 1.02 | 202.80 | 3,672.41 | -54.44 | -2.19 | 51.61 | 0.24 | 0.20 | 8.81 |
| 3,764.00 | 1.58 | 204.21 | 3,763.39 | -56.33 | -3.02 | 53.67 | 0.62 | 0.62 | 1.55 |
| 3,854.00 | 1.45 | 214.89 | 3,853.35 | -58.39 | -4.18 | 56.02 | 0.34 | -0.14 | 11.87 |
| 3,945.00 | 0.62 | 178.55 | 3,944.34 | -59.83 | -4.82 | 57.59 | 1.12 | -0.91 | -39.93 |
| 4,036.00 | 0.62 | 167.65 | 4,035.33 | -60.80 | -4.71 | 58.46 | 0.13 | 0.00 | -11.98 |
| 4,126.00 | 1.10 | 171.47 | 4,125.32 | -62.13 | -4.47 | 59.62 | 0.54 | 0.53 | 4.24 |
| 4,217.00 | 1.67 | 192.83 | 4,216.30 | -64.29 | -4.64 | 61.69 | 0.83 | 0.63 | 23.47 |
| 4,308.00 | 0.48 | 212.30 | 4,307.28 | -65.91 | -5.14 | 63.37 | 1.35 | -1.31 | 21.40 |
| 4,398.00 | 1.01 | 207.95 | 4,397.27 | -66.92 | -5.71 | 64.53 | 0.59 | 0.59 | -4.83 |
| 4,489.00 | 1.41 | 189.27 | 4,488.25 | -68.74 | -6.27 | 66.42 | 0.61 | 0.44 | -20.53 |
| 4,580.00 | 1.89 | 187.91 | 4,579.21 | -71.33 | -6.65 | 68.98 | 0.53 | 0.53 | -1.49 |
| 4,670.00 | 1.19 | 231.90 | 4,669.18 | -73.38 | -7.59 | 71.23 | 1.47 | -0.78 | 48.88 |
| 4,761.00 | 0.31 | 288.19 | 4,760.18 | -73.88 | -8.57 | 72.05 | 1.15 | -0.97 | 61.86 |
| 4,852.00 | 0.92 | 221.75 | 4,851.17 | -74.35 | -9.29 | 72.75 | 0.93 | 0.67 | -73.01 |
| 4,942.00 | 1.32 | 190.06 | 4,941.15 | -75.91 | -9.95 | 74.44 | 0.80 | 0.44 | -35.21 |
| 5,033.00 | 1.23 | 195.25 | 5,032.13 | -77.88 | -10.39 | 76.44 | 0.16 | -0.10 | 5.70 |
| 5,124.00 | 1.41 | 180.77 | 5,123.11 | -79.95 | -10.67 | 78.46 | 0.41 | 0.20 | -15.91 |
| 5,215.00 | 2.20 | 166.02 | 5,214.06 | -82.76 | -10.26 | 80.95 | 1.00 | 0.87 | -16.21 |
| 5,305.00 | 1.98 | 176.48 | 5,304.00 | -85.99 | -9.75 | 83.78 | 0.49 | -0.24 | 11.62 |
| 5,335.00 | 2.24 | 175.34 | 5,333.98 | -87.09 | -9.67 | 84.78 | 0.88 | 0.87 | -3.80 |
| 5,385.00 | 2.58 | 185.62 | 5,383.94 | -89.18 | -9.70 | 86.74 | 1.10 | 0.68 | 20.56 |
| 5,415.00 | 5.19 | 187.18 | 5,413.87 | -91.20 | -9.93 | 88.71 | 8.71 | 8.70 | 5.20 |
| 5,445.00 | 8.88 | 182.56 | 5,443.64 | -94.86 | -10.21 | 92.23 | 12.43 | 12.30 | -15.40 |
| 5,475.00 | 12.94 | 185.81 | 5,473.09 | -100.52 | -10.65 | 97.67 | 13.68 | 13.53 | 10.83 |
| 5,505.00 | 16.25 | 185.81 | 5,502.12 | -108.04 | -11.41 | 104.96 | 11.03 | 11.03 | 0.00 |
| 5,535.00 | 19.00 | 186.06 | 5,530.71 | -117.07 | -12.36 | 113.74 | 9.17 | 9.17 | 0.83 |
| 5,565.00 | 22.00 | 188.43 | 5,558.80 | -127.49 | -13.70 | 123.94 | 10.37 | 10.00 | 7.90 |
| 5,595.00 | 25.50 | 188.56 | 5,586.26 | -139.44 | -15.48 | 135.74 | 11.67 | 11.67 | 0.43 |
| 5,625.00 | 28.13 | 188.81 | 5,613.Q3 | -152.82 | -17.53 | 148.96 | 8.77 | 8.77 | 0.83 |



Weatherford International Ltd.

Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site: Well: GMB 14-14T-9-15H GMB 14-14T-9-15H GMB 14-14T-9-15H

Wellbore:

GMB 14-14T-9-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329) WELL @ 6283.00ft (CAPSTAR 329)

True

Minimum Curvature

EDM 2003.21 Single User Db

| y . | er i i samen en 11.54. De gerotera en 11.44. Mentre en 11.44. | | galander (n. 1864) 1960 - Albert Maries, de fan de 1861 - Galander (n. 1864) | ar in a garage de la calendaria. La calendaria de la calend La calendaria de la calendaria | | r para del medio dell'alcando La periodica della della della La periodica della | an de la proposició de Maria de Registra de la Maria de Registra de la proposició de la p | i entre di la caracteria. La caracteria de la caracteria | |
|---------------------------|---|------------------|--|---|--------------------|---|---|--|----------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,655.00 | 30.69 | 190.93 | 5,639.16 | -167.33 | -20.06 | 163.41 | 9.21 | 8.53 | 7.07 |
| 5,685.00 | 33.31 | 192.56 | 5,664.60 | -182.89 | -23.30 | 179.10 | 9.20 | 8.73 | 5.43 |
| 5,715.00 | 35.81 | 196.31 | 5,689.31 | -199.35 | -27.56 | 196.00 | 10.94 | 8.33 | 12.50 |
| 5,745.00 | 38.63 | 198.93 | 5,713.20 | -216.64 | -33.07 | 214.11 | 10.78 | 9.40 | 8.73 |
| 5,775.00 | 41.19 | 199.56 | 5,736.21 | -234.81 | -39.41 | 233.35 | 8.64 | 8.53 | 2.10 |
| 5,805.00 | 43.75 | 199.18 | 5,758.33 | -253.92 | -46.13 | 253.60 | 8.58 | 8.53 | -1.27 |
| 5,835.00 | 44.81 | 199.56 | 5,779.81 | -273.68 | -53.08 | 274.53 | 3.64 | 3.53 | 1.27 |
| 5,865.00 | 44.88 | 199.43 | 5,801.08 | -293.62 | -60.14 | 295.68 | 0.38 | 0.23 | -0.43 |
| 5,895.00 | 44.88 | 199.43 | 5,822.34 | -313.58 | -67.18 | 316.84 | 0.00 | 0.00 | 0.00 |
| 5,925.00 | 47.25 | 199.56 | 5,843.15 | -333.95 | -74.39 | 338.44 | 7.91 | 7.90 | 0.43 |
| 5,955.00 | 51.31 | 198.56 | 5,862.72 | -355.43 | -81.80 | 361.16 | 13.77 | 13.53 | -3.33 |
| 5,985.00 | 53.25 | 199.81 | 5,881.07 | -377.84 | -89.61 | 384.87 | 7.26 | 6.47 | 4.17 |
| 6,015.00 | 54.88 | 200.06 | 5,898.68 | -400.68 | -97.89 | 409.16 | 5.48 | 5.43 | 0.83 |
| 6,045.00 | 56.81 | 201.93 | 5,915.52 | -423.85 | -106.79 | 433.98 | 8.25 | 6.43 | 6.23 |
| 6,075.00 | 59.69 | 201.81 | 5,931.31 | -447.52 | -116.29 | 459.49 | 9.61 | 9.60 | -0.40 |
| 6,105.00 | 63.38 | 200.81 | 5,945.60 | -472.09 | -125.87 | 485.85 | 12.64 | 12.30 | -3.33 |
| 6,135.00 6,165.00 | 67.31 | 200.93 | 5,958.12 5,968.73 | -497.56 -523.80 | -135.58 -145.51 | 513.11 541.17 | 13.11 13.18 | 13.10 13.13 | 0.40 -1.23 |
| | 71.25 | 200.56 | • | | | | | | |
| 6,195.00 | 74.56 | 200.06 | 5,977.55 | -550.68 | -155.46 | 569.84 | 11.15 | 11.03 | -1.67 |
| 6,225.00 | 77.94 | 200.93 | 5,984.68 | -577.97 | -165.67 | 598.97 | 11.61 | 11.27 | 2.90 |
| 6,255.00 | 81.45 | 200.75 | 5,990.04 | -605.56 | -176.17 | 628.48 | 11.71 | 11.70 | -0.60 |
| 6,285.00 6,297.00 | 85.38 86.89 | 200.06 199.61 | 5,993.48 5,994.29 | -633.48 -644.74 | -186.55 -190.62 | 658.28 670.25 | 13.30 13.13 | 13.10 12.58 | -2.30 -3.75 |
| | | | | | | | | | |
| 6,337.00 6,382.00 | 90.00 | 199.93 200.32 | 5,995.38 5,995.11 | -682.37 -724.62 | -204.14 -219.62 | 710.22 755.21 | 7.82 1.74 | 7.78 1.51 | 0.80 0.87 |
| 6,428.00 | 90.68 93.21 | 200.32 | 5,993.55 | -724.02 -767.60 | -219.02 | 801.18 | 5.82 | 5.50 | 1.91 |
| 6,473.00 | 93.33 | 201.54 | 5,990.98 | | -252.29 | 846.11 | 0.80 | 0.27 | 0.76 |
| 6,518.00 | 91.98 | 201.18 | 5,988.90 | -851.31 | -268.66 | 891.06 | 3.10 | -3.00 | -0.80 |
| 6,564.00 | 92.96 | 202.80 | 5,986.91 | -893.92 | -285.87 | 937.00 | 4.11 | 2.13 | 3.52 |
| 6,609.00 | 92.59 | 203.60 | 5,984.73 | -935.23 | -303.57 | 981.92 | 1.96 | -0.82 | 1.78 |
| 6,654.00 | 91.73 | 203.64 | 5,983.04 | -976.43 | -321.59 | 1,026.84 | 1.91 | -1.91 | 0.09 |
| 6,700.00 | 90.92 | 203.76 | 5,981.98 | -1,018.54 | -340.07 | 1,072.77 | 1.78 | -1.76 | 0.26 |
| 6,745.00 | 93.52 | 204.65 | 5,980.23 | -1,059.55 | -358.51 | 1,117.66 | 6.11 | 5.78 | 1.98 |
| 6,790.00 | 94.24 | 205.21 | 5,977.19 | -1,100.26 | -377.43 | 1,162.45 | 2.03 | 1.60 | 1.24 |
| 6,836.00 | 92.38 | 203.59 | 5,974.53 | -1,142.08 | -396.40 | 1,208.29 | 5.36 | -4.04 | -3.52 |
| 6,881.00 | 90.49 | 202.43 | 5,973.40 | -1,183.48 | -413.98 | 1,253.25 | 4.93 | -4.20 | -2.58 |
| 6,926.00 | 91.73 | 203.28 | 5,972.53 | -1,224.94 | -431.46 | 1,298.21 | 3.34 | 2.76 | 1.89 |
| 6,972.00 | 91.85 | 204.08 | 5,971.10 | -1,267.05 | -449.92 | 1,344.14 | 1.76 | 0.26 | 1.74 |
| 7,017.00 | 92.59 | 203.13 | 5,969.35 | -1,308.25 | -467.93 | 1,389.06 | 2.67 | 1.64 | -2.11 |
| 7,062.00 | 92.65 | 202.78 | 5,967.30 | -1,349.64 | -485.46 | 1,433.98 | 0.79 | 0.13 | -0.78 |
| 7,108.00 | 91.30 | 201.17 | 5,965.71 | -1,392.27 | -502.66 | 1,479.95 | 4.57 | -2.93 | -3.50 |
| 7,153.00 | 93.39 | 202.71 | 5,963.87 | -1,433.98 -1,475.33 | -519.46 -536.98 | 1,524.90 | 5.77 1.67 | 4.64 | 3.42 |
| 7,198.00 | 93.95 | 203.21 | 5,960.99 | -1,475.33 | -536.98 | 1,569.78 | 1.67 | 1.24 | 1.11 |
| 7,244.00 | 91.73 | 200.76 | 5,958.71 | -1,517.92 | -554.18 | 1,615.71 | 7.18 | -4.83 | -5.33 |
| 7,289.00 | 92.72 | 201.29 | 5,956.96 | -1,559.90 | -570.31 | 1,660.68 | 2.50 | 2.20 | 1.18 |
| 7,334.00 7,380.00 | 91.97 | 201.96 | 5,955.12 | -1,601.69 -1,644.34 | -586.88 -604.06 | 1,705.63 1,751.60 | 2.23 0.27 | -1.67 -0.26 | 1.49 -0.07 |
| 7,380.00 7,425.00 | 91.85 92.78 | 201.93 202.83 | 5,953.59 5,951.77 | -1,6 44 .3 4 -1,685.91 | -604.06 -621.18 | 1,751.60 | 0.27 2.87 | -0.26 2.07 | 2.00 |
| | | | • | | | | | | -0.44 |
| 7,470.00 7,516.00 | 92.16 92.04 | 202.63 202.56 | 5,949.83 5,948.14 | -1,727.38 -1,769.82 | -638.55 -656.21 | 1,841.49 1,887.44 | 1.45 0.30 | -1.38 -0.26 | -0.4 4 -0.15 |
| 7,516.00 | 93.21 | 202.56 | 5,946.08 | -1,709.02 | -673.32 | 1,932.38 | 2.73 | 2.60 | -0.13 -0.82 |
| 7,607.00 | 91.50 | 200.77 | 5,944.19 | -1,854.15 | -690.15 | 1,978.33 | 4.83 | -3.72 | -3.09 |
| 7,652.00 | 92.20 | 200.95 | 5,942.74 | -1,896.18 | -706.17 | 2,023.31 | 1.61 | 1.56 | 0.40 |
| , | | | | • | | | | | - |



Weatherford International Ltd.

Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site: Well: GMB 14-14T-9-15H

Wellbore:

GMB 14-14T-9-15H GMB 14-14T-9-15H

Design:

GMB 14-14T-9-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329)

WELL @ 6283.00ft (CAPSTAR 329)

True

Minimum Curvature

EDM 2003.21 Single User Db

| S | ì | J | rv | ŧ |) | 1 |
|---|---|---|----|---|---|------|
| | | | | | | 27.7 |
| | | | | | | |

| Measured Depth (ff) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ff) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 7,743.00 | 92.78 | 199.62 | 5,938.80 | -1,981.35 | -737.96 | 2,114.22 | 2.36 | 0.67 | -2.26 |
| 7,788.00 | 91.85 | 199.76 | 5,936.98 | -2,023.69 | -753.11 | 2,159.17 | 2.09 | -2.07 | 0.31 |
| 7,833.00 | 92.53 | 206.85 | 5,935.26 | -2,064.96 | -770.89 | 2,204.07 | 15.82 | 1.51 | 15.76 |
| 7,879.00 | 91.14 | 207.82 | 5,933.79 | -2,105.80 | -792.00 | 2,249.76 | 3.68 | -3.02 | 2.11 |
| 7,924.00 | 92.96 | 208.76 | 5,932.18 | -2,145.40 | -813.31 | 2,294.37 | 4.55 | 4.04 | 2.09 |
| 7,969.00 | 93.46 | 208.65 | 5,929.66 | -2,184.80 | -834.89 | 2,338.89 | 1.14 | 1.11 | -0.24 |
| 8,015.00 | 93.21 | 207.94 | 5,926.98 | -2,225.24 | -856.66 | 2,384.44 | 1.63 | -0.54 | -1.54 |
| 8,060.00 | 93.08 | 207.49 | 5,924.51 | -2,265.02 | -877.55 | 2,429.06 | 1.04 | -0.29 | -1.00 |
| 8,117.00 | 92.28 | 205.98 | 5,921.85 | -2,315.87 | -903.17 | 2,485.71 | 3.00 | -1.40 | -2.65 |
| 8,162.00 | 92.03 | 207.86 | 5,920.16 | -2,355.96 | -923.52 | 2,530.43 | 4.21 | -0.56 | 4.18 |
| 8,207.00 | 92.47 | 207.44 | 5,918.39 | -2,395.79 | -944.39 | 2,575.09 | 1.35 | 0.98 | -0.93 |
| 8,253.00 | 90.35 | 203.59 | 5,917.26 | -2,437.28 | -964.19 | 2,620.93 | 9.55 | -4.61 | -8.37 |
| 8,298.00 | 88.89 | 199.38 | 5,917.56 | -2,479.14 | -980.67 | 2,665.91 | 9.90 | -3.24 | -9.36 |
| 8,343.00 | 87.00 | 198.13 | 5,919.17 | -2,521.72 | -995.13 | 2,710.85 | 5.03 | -4.20 | -2.78 |
| 8,389.00 | 88.33 | 198.16 | 5,921.04 | -2,565.40 | -1,009.44 | 2,756.75 | 2.89 | 2.89 | 0.07 |
| 8,434.00 | 89.94 | 197.48 | 5,921.72 | -2,608.23 | -1,023.21 | 2,801.68 | 3.88 | 3.58 | -1.51 |
| 8,479.00 | 91.23 | 197.12 | 5,921.26 | -2,651.19 | -1,036.59 | 2,846.58 | 2.98 | 2.87 | -0.80 |
| 8,525.00 | 94.01 | 197.59 | 5,919.16 | -2,695.05 | -1,050.30 | 2,892.43 | 6.13 | 6.04 | 1.02 |
| 8,570.00 | 95.93 | 197.15 | 5,915.26 | -2,737.83 | -1,063.68 | 2,937.17 | 4.38 | 4.27 | -0.98 |
| 8,615.00 | 95.93 | 198.32 | 5,910.61 | -2,780.46 | -1,077.32 | 2,981.86 | 2.59 | 0.00 | 2.60 |
| 8,661.00 | 96.35 | 198.31 | 5,905.69 | -2,823.88 | -1,091.69 | 3,027.55 | 0.91 | 0.91 | -0.02 |
| 8,706.00 | 97.11 | 198.33 | 5,900.42 | -2,866.31 | -1,105.74 | 3,072.19 | 1.69 | 1.69 | 0.04 |
| 8,751.00 | 94.38 | 199.42 | 5,895.92 | -2,908.67 | -1,120.22 | 3,116.93 | 6.53 | -6.07 | 2.42 |
| 8,797.00 | 93.77 | 199.22 | 5,892.65 | -2,951.97 | -1,135.40 | 3,162.79 | 1.40 | -1.33 | -0.43 |
| 8,842.00 | 92.47 | 198.66 | 5,890.20 | -2,994.47 | -1,149.98 | 3,207.69 | 3.14 | -2.89 | -1.24 |
| 8,887.00 | 92.59 | 199.33 | 5,888.21 | -3,036.98 | -1,164.62 | 3,252.62 | 1.51 | 0.27 | 1.49 |
| 8,933.00 | 92.71 | 199.27 | 5,886.08 | -3,080.34 | -1,179.80 | 3,298.55 | 0.29 | 0.26 | -0.13 |
| 8,978.00 | 92.22 | 199.09 | 5,884.15 | -3,122.81 | -1,194.57 | 3,343.49 | 1.16 | -1.09 | -0.40 |
| 9,023.00 | 92.03 | 199.01 | 5,882.48 | -3,165.31 | -1,209.25 | 3,388.43 | 0.46 | -0.42 | -0.18 |
| 9,069.00 | 91.67 | 199.19 | 5,881.00 | -3,208.76 | -1,224.30 | 3,434.38 | 0.87 | -0.78 | 0.39 |
| 9,114.00 | 93.21 | 199.65 | 5,879.08 | -3,251.16 | -1,239.24 | 3,479.33 | 3.57 | 3.42 | 1.02 |
| 9,159.00 | 92.10 | 199.59 | 5,876.99 | -3,293.50 | -1,254.34 | 3,524.26 | 2.47 | -2.47 | -0.13 |
| 9,204.00 | 93.15 | 200.19 | 5,874.93 | -3,335.77 | -1,269.63 | 3,569.21 | 2.69 | 2.33 | 1.33 |
| 9,250.00 | 92.16 | 199.79 | 5,872.80 | -3,378.95 | -1,285.34 | 3,615.15 | 2.32 | -2.15 | -0.87 |
| 9,295.00 | 92.78 | 200.45 | 5,870.86 | -3,421.17 | -1,300.80 | 3,660.10 | 2.01 | 1.38 | 1.47 |
| 9,340.00 | 93.14 | 201.25 | 5,868.54 | -3,463.16 | -1,316.80 | 3,705.04 | 1.95 | 0.80 | 1.78 |
| 9,386.00 | 93.65 | 201.36 | 5,865.82 | -3,505.94 | -1,333.48 | 3,750.96 | 1.13 | 1.11 | 0.24 |
| 9,431.00 | 93.00 | 201.66 | 5,863.21 | -3,547.74 | -1,349.95 | 3,795.88 | 1.59 | -1.44 | 0.67 |
| 9,477.00 | 91.97 | 201.31 | 5,861.21 | -3,590.50 | -1,366.79 | 3,841.84 | 2.36 | -2.24 | -0.76 |
| 9,522.00 | 90.93 | 200.10 | 5,860.07 | -3,632.58 | -1,382.69 | 3,886.82 | 3.54 | -2.31 | -2.69 |
| 9,567.00 | 91.67 | 200.28 | 5,859.05 | -3,674.80 | -1,398.22 | 3,931.80 | 1.69 | 1.64 | 0.40 |
| 9,613.00 | 93.44 | 200.95 | 5,857.00 | -3,717.81 | -1,414.40 | 3,977.76 | 4.11 | 3.85 | 1.46 |
| 9,658.00 | 92.96 | 201.05 | 5,854.49 | -3,759.76 | -1,430.50 | 4,022.69 | 1.09 | -1.07 | 0.22 |
| 9,703.00 | 92.10 | 201.65 | 5,852.50 | -3,801.63 | -1,446.86 | 4,067.64 | 2.33 | -1.91 | 1.33 |
| 9,748.00 | 92.04 | 201.75 | 5,850.88 | -3,843.41 | -1,463.49 | 4,112.61 | 0.26 | -0.13 | 0.22 |
| 9,794.00 | 89.38 | 201.48 | 5,850.31 | -3,886.17 | -1,480.43 | 4,158.60 | 5.81 | -5.78 | -0.59 |
| 9,839.00 | 89.08 | 202.09 | 5,850.91 | -3,927.95 | -1,497.13 | 4,203.59 | 1.51 | -0.67 | 1.36 |
| 9,885.00 | 92.66 | 202.74 | 5,850.21 | -3,970.47 | -1,514.67 | 4,249.56 | 7.91 | 7.78 | 1.41 |
| 9,930.00 | 92.12 | 203.07 | 5,848.34 | -4,011.88 | -1,532.17 | 4,294.50 | 1.41 | -1.20 | 0.73 |
| 9,975.00 | 91.42 | 202.11 | 5,846.95 | -4,053.41 | -1,549.44 | 4,339.46 | 2.64 | -1.56 | -2.13 |
| 10,021.00 | 92.59 | 203.50 | 5,845.34 | -4,095.79 | -1,567.26 | 4,385.40 | 3.95 | 2.54 | 3.02 |
| 10,066.00 | 91.23 | 203.30 | 5,843.84 | -4,137.06 | -1,585.12 | 4,430.34 | 3.05 | -3.02 | -0.44 |
| 10,111.00 | 92.59 | 204.16 | 5,842.34 | -4,178.23 | -1,603.22 | 4,475.26 | 3.58 | 3.02 | 1.91 |
| 10,157.00 | 92.17 | 203.27 | 5,840.43 | -4,220.31 | -1,621.71 | 4,521.17 | 2.14 | -0.91 | -1.93 |



Weatherford International Ltd.

Survey Report



Company:

NEWFIELD EXPLORATION CO.

Project:

DUCHESNE COUNTY, UT

Site: Well: GMB 14-14T-9-15H GMB 14-14T-9-15H

Wellbore:

GMB 14-14T-9-15H

Design:

GMB 14-14T-9-15H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well GMB 14-14T-9-15H

WELL @ 6283.00ft (CAPSTAR 329)

WELL @ 6283.00ft (CAPSTAR 329)

True

Minimum Curvature

EDM 2003.21 Single User Db

| | - | |
|--|---|--|
| | | |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|--------------------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 10,202.00 | 92.20 | 202.89 | 5,838.71 | -4,261.68 | -1,639.33 | 4,566.10 | 0.85 | 0.07 | -0.84 |
| 10,247.00 | 92.10 | 202.43 | 5,837.02 | -4,303.18 | -1,656.66 | 4,611.05 | 1.05 | -0.22 | -1.02 |
| 10,293.00 | 91.94 | 202.36 | 5,835.40 | -4,345.68 | -1,674.17 | 4,657.01 | 0.38 | -0.35 | -0.15 |
| 10.338.00 | 91.42 | 201.68 | 5,834.08 | -4,387.38 | -1,691.04 | 4,701.98 | 1.90 | -1.16 | -1.51 |
| 10,383.00 | 91.91 | 201.21 | 5,832.78 | -4,429.25 | -1,707.48 | 4,746.96 | 1.51 | 1.09 | -1.04 |
| 10,429.00 | 92.22 | 201.09 | 5,831.12 | -4,472.12 | -1,724.07 | 4,792.93 | 0.72 | 0.67 | -0.26 |
| 10,474.00 | 93.02 | 201.58 | 5,829.06 | -4,513.99 | -1,740.42 | 4,837.88 | 2.08 | 1.78 | 1.09 |
| 10,519.00 | 92.47 | 201.79 | 5,826.91 | -4,555.76 | -1,757.03 | 4,882.83 | 1.31 | -1.22 | 0.47 |
| 10,565.00 | 91.60 | 202.20 | 5,825.27 | -4,598.38 | -1,774.25 | 4,928.79 | 2.09 | -1.89 | 0.89 |
| LAST SVY | | | | | | | | | |
| 10,610.00 | 92.75 | 202.82 | 5,823.57 | -4,639.92 | -1,791.47 | 4,973.74 | 2.90 | 2.56 | 1.38 |
| PBHL GME | 3 14-14T-9-15H | | | | | | | | |
| 10,660.47 | 92.75 | 202.82 | 5,821.14 | -4,686.39 | -1,811.02 | 5,024.13 | 0.00 | 0.00 | 0.00 |
| PROJ SVY | | | -, | | • | • | | | |
| 10,670.00 | 92.75 | 202.82 | 5,820.69 | -4.695.16 ≪ - | 1 814 71 | 5,033.64 | 0.00 | 0.00 | 0.00 |

Survey Annotations

| Measured | Vertical | Local Coor | dinates | |
|-----------|----------|------------|-----------|----------|
| Depth | Depth | +N/-S | +E/-W | |
| (ft) | (ft) | (ft) | (ft) | Comment |
| 10,610.00 | 5,823.57 | -4,639.92 | -1,791.47 | LAST SVY |
| 10,670.00 | 5,820.69 | -4,695.16 | -1,814.71 | PROJ SVY |

| Checked By: | Approved By: | Date: | |
|-------------|--------------|--|--|
| CHECKEU Dy. | Approved by. | Date. | |
| • | | The same and the same description of the same and the sam | |

Daily Activity Report

Format For Sundry GMBU 14-14T-9-15H 1/1/2011 To 5/30/2011

GMBU 14-14T-9-15H

Waiting on Cement

Date: 3/24/2011

Ross #29 at 311. Days Since Spud - yield. Returned 4.5bbls to pit, bump plug to 356psi, BLM and State were notified of spud via email. - On 3/15/11 Ross #29 spud and drilled 310' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set - @ 311.44'KB. On 3/15/11 cement w/BJ w/160 sks of class C + 30'kksl + 25 #CF mixed @ 15 8ppg and 1.17

w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17

Daily Cost: \$0

Cumulative Cost: \$119,986

GMBU 14-14T-9-15H

Drill Cement

Date: 3/25/2011

Capstar #329 at 311. 0 Days Since Spud - Install wear bushing in 11" 5K head - Trip¿pick up directional bha, install RH, and TIH - Pressure test BOP's¿Test Blind & Pipe rams to 250 low & 2000 high - Nipple up BOP's - MR to new locatin - Test choke line, Choke manifold, Lower Kelly cock & safety valve to 250 low 2000 high - Test annular to 250 low and 1500 high, Test csg to 1500 psi¿all equipt tested good - Rig up¿hook up kill lines, c/o fill up line, load pipe racks & SLM same - Rig up

Daily Cost: \$0

Cumulative Cost: \$146,852

GMBU 14-14T-9-15H

Drill 7 7/8" hole with fresh water

Date: 3/26/2011

Capstar #329 at 3773. 1 Days Since Spud - Drill 7 7/8" hole 311'-1390' $\stackrel{\cdot}{\iota}$ (1079') @ 165 fph, 140mm + 60 rot=200 trpm w/ 1200 psi pump press - Pull back 8 jts to get directional surveys - Drill 7 7/8" hole 1390'-2141' $\stackrel{\cdot}{\iota}$ (751') @ 188 fph, 140mm + 60 rot=200 trpm w/ 1200 psi pump press - Rig service - Drill 7 7/8" hole 2141'-3773' $\stackrel{\cdot}{\iota}$ (1632') @ 136 fph, 140mm + 60 rot=200 trpm w/ 1400 psi pump press - Tag cmt @ 263' $\stackrel{\cdot}{\iota}$ Drill cmt & float equipt to 311'

Daily Cost: \$0

Cumulative Cost: \$179,464

GMBU 14-14T-9-15H

Drill 7 7/8" hole with fresh water

Date: 3/27/2011

Capstar #329 at 5390. 2 Days Since Spud - Rig repair work on drawworks motor - Pull kelly hose - TOOH to pick up curve / build assembly - Build and pump slug - Pull 10 jts and check for flow on flow - TOOH to pick up build assembly - Hole pulled tight @ +/- 5050' bring on mud pump & circulate pumping high vis pill - Pump high vis pill and circulate hole clean & pump slug - Drill 7 7/8" hole 4997'-5390' \dot{c} (393') @ 112 fph, 140mm + 60 rot=200 trpm w/ 1500 psi pump press - Rig service - Drill 7 7/8" hole 3773'-4997' \dot{c} (1224') @ 106 fph, 140mm + 60 rot=200 trpm w/ 1500 psi pump press - @ btms up return +/-5 gl of large uncut solids, circulate hole clean

Daily Cost: \$0

Cumulative Cost: \$253,925

GMBU 14-14T-9-15H

Drill 7 7/8" Curve section

Date: 3/28/2011

Capstar #329 at 5811. 3 Days Since Spud - Slide/Rot for curve 5534'-5811'¿(277') @ 23 fph,

MM 136 rpm, 1450 psi pump pressure - Rig Service - Slide/Rot for curve 5390'-5534'¿(144') @ 29 fph, MM 136 rpm, 1450 psi pump pressure - raise mud weight from 9.0ppg to 9.3ppg while drilling curve - TIH to 4900' - Hook up kelly hose and SLM pipe on rack - TIH - Laydown verticle BHA & tools, P/U & M/U wthrfd Directional tools - Wash from 4900' to 5390' @ bottoms up return a excess amount of large undrilled shale

Daily Cost: \$0

Cumulative Cost: \$315,233

GMBU 14-14T-9-15H

Drill 7 7/8" Curve section

Date: 3/29/2011

Capstar #329 at 6260. 4 Days Since Spud - Rig service - Slide/Rot for curve 6078'-6260' (182') @ 15 fph, MM 136 rpm 30 rot = 190, 1550 psi pump pressure - Slide/Rot for curve 5811'-6078' (267') @ 23 fph, MM 136 rpm 30 rot = 190, 1550 psi pump pressure

Daily Cost: \$0

Cumulative Cost: \$347,542

GMBU 14-14T-9-15H

Drill 7 7/8" Curve section

Date: 3/30/2011

Capstar #329 at 6350. 5 Days Since Spud - Lay down curve directional bha - Pull rot head rubber and remove kelly hose - TOOH - Rig repair / work on trip tank fill pump - Rig service / work on trip tank fill pump - TOOH - Break circulation build and pump slug - pump high vis sweeps and raise MW from 9.5 - 9.7 sliver amounts lessen during circulation - circulate and reciprocate pipe, on bottoms up circulate up excess amounts of large uncut slivers, - Bring pump on slowly to break circulation raising pump to drilling rate with stable pressure, - TOOH / pulled tight @ 6008', work multiple times with no movement up pipe moving freely downhole - amount by the end of 3rd bottoms up - Circ & cond / Pump high vis sweep and circ hole clean some shale slivers @ bottoms up reduceing in - Slide/Rot for curve 6260'-6350' (90') @ 15 fph, MM 136 rpm 30 rot = 190, 1550 psi pump pressure - Pick up hunting 4 3/4", 1.5 deg, .46 rpg mm and scribe tools - Download to LWD tools / hold PJSM / & Load sources - TIH / load racks & SLM - TOOH to verticle section

Daily Cost: \$0

Cumulative Cost: \$419,101

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 3/31/2011

Capstar #329 at 7440. 6 Days Since Spud - Run correlation log 100' @ 100fph - hole appearing to clean up with occasional small slivers returning - Break circ & wash from 5900'-6248' @ bottoms up circ up +/-2 min wave of uncut chunks and slivers, - TIH - Drill 6 1/8" lateral 6350'-7440' (1090') @ 56 fph w/ 284gpm 130 rpm mm + 60=190 w/ 1560 psi

Daily Cost: \$0

Cumulative Cost: \$459,628

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/1/2011

Capstar #329 at 8060. 7 Days Since Spud - Rig service¿work on mud pumps - Drill 6 1/8" lateral 7593'-7729' (136') @ 34 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2000 psi - Trouble shoot LWD and relog 90' - Drill 6 1/8" lateral 7440'-7593' (153') @ 26 fph w/ 284gpm 130 rpm mm + 60=190 w/ 1900 psi - Drill 6 1/8" lateral 7729'-8060' (331') @ 27.6 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2000 psi

Daily Cost: \$0

Cumulative Cost: \$511,480

GMBU 14-14T-9-15H TIH

Date: 4/2/2011

Capstar #329 at 8122. 8 Days Since Spud - and low torque rotation - TIH - Cut and Slip drilling line - TIH - C\O bit, motor, Hold PJSM, install sources, and program HEL tool - Hold PJSM w/ weatherford and remove sources - Pull up and ream thru dogleg with ghost reamer - Drill 6 1/8" lateral 8060'-8122' (62') @ 12.4 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2100 psi - Circ and cond / pump 20bbl high vis sweep @ 10.5ppg and circ out - TOOH \dot{c} work thru tight spots from 6986' - 6488' P/U 125K max pull 200K work thru with 175K w/out pump

Daily Cost: \$0

Cumulative Cost: \$556,591

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/3/2011

Capstar #329 at 8805. 9 Days Since Spud - Drill 6 1/8" lateral 8358'-8805' (447') @ 33.1 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2875 psi - Troubleshoot LWD tool - Drill 6 1/8" lateral 8122'-8358' (236') @ 31.4 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2875 psi - Rig service - Wash in the hole - 8281'-8296', 8727'-8742', Ream out slides @ 150fph multiple times due to

Daily Cost: \$0

Cumulative Cost: \$598,620

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/4/2011

Capstar #329 at 9582. 10 Days Since Spud - Trouble shoot LWD¿cycle pumps multiple times to obtain survey - Drill 6 1/8" lateral 9129'-9582' (453') @ 47.7 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2810 psi - Rig repair / work on mud pumps - Drill 6 1/8" lateral 9038'-9129' (91') @ 36.4 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2810 psi - previous drilling parameters - slivers reducing in size and amount before returning to drill and fluid wieights stabilizing to near - return excess amounts of shale and limestone slivers to surface during last 1.5 hrs of circ, - Circulate and Condition Mud / Mix chemicals to thin and release trapped air in drlg fluid - Rig Service¿work on both mud pumps - raising viscosity by +30 and dropping MW by .4 ppbbl due to air cut Mud - flocking of the mud, after +/- 15 minutes severe flocking in pit system and hole occurred, - than torque prior to pumping pill / On intial return of lube to surface it showed no sign of any - saw torque drop +/- 2000 ft/lbs as lube cleared bit and lateral then torque raising to 200 pnds less - @ 8930 pump 80 bbl sweep of ProOne XPL Downhole Drilling fluid as per distributor's recipe - Drill 6 1/8" lateral 8805'-9038' (233') @ 51.8 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2875 psi

Daily Cost: \$0

Cumulative Cost: \$649,544

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/5/2011

Capstar #329 at 10353. 11 Days Since Spud - Rig service - Drill 6 1/8" lateral 9582'- 9899' (317') @ 27.6 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2900 psi - Drill 6 1/8" lateral 9899'-10353' (454') @ 37.8 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2915 psi

Daily Cost: \$0

Cumulative Cost: \$686,695

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/6/2011

Capstar #329 at 10381. 12 Days Since Spud - TOOH & pull RH rubber - TIH. - Wash to

bottom from 9400'. - Circ hole clean. - Drill 6 1/8" lateral 10353' - 10381' (28') @ 18.6 fph w/ 284gpm 130 rpm mm + 60=190 w/ 2915 psi - Possible tool failure. Pressure down 200psi and torque down 1000psi. Unable to drill. - inspect bit, C/O motor, hold PJSM, install sources, and program HEL tool.

Daily Cost: \$0

Cumulative Cost: \$736,944

GMBU 14-14T-9-15H Logging

Date: 4/7/2011

Capstar #329 at 10670. 13 Days Since Spud - Held Safety Meeting with Weatherford Loggers. - P/U Weatherford Immager Log Tools. - Hold safety meeting, pulled source, break down all Directional Tools. - Wash to bottom - Drill 6 1/8" lateral 10381' - 10670' (289') @ 48.2 fph w/ 284gpm 130 rpm mm + 60=190 w/ 3125 psi - Circulate hole clean for logs - Trip out of hole for logs. - Rig repair, fix draw works chain. - Continue trip out of hole for logs.

Daily Cost: \$0

Cumulative Cost: \$823,547

GMBU 14-14T-9-15H TOOH

Date: 4/8/2011

Capstar #329 at 10670. 14 Days Since Spud - pumped 124 bbl mud, pumped logging tool out of DP. - Drill pipe stuck after pumping logging tool out. Work DP free, (circulate, no rotation or movement) - Pull Weatherford DP Immaging / GR logging tool @ 15 feet / min. f/ 10,670' to 5300'. - Trip out of hole f/ 5300' - Held Safety meeting with Weatherford & BJ pump truck. Pressure tested pump & lines to 5000 psi. - Trip in hole w/ Weatherford Shuttle Log to 10,670'. No tight spots.

Daily Cost: \$0

Cumulative Cost: \$846,253

GMBU 14-14T-9-15H TOOH

Date: 4/9/2011

Capstar #329 at 10670. 15 Days Since Spud - Trip out of hole f/ 1363' to 826'. . - Pulled Rotating Head Rubber. - Trip out of hole w/ DP f/ 826' to 156'. - L/D Weatherford Shuttle Logging Tools. - Held Safety Meeting, R/U Weatherford Wire Line & M/U Triple Combo tool string. - Run in hole with Triple combo, Tag Down @ 6098' (60 deg's). Log up w/ MLE / MPO / MDN / MCG, f/ 6098 - to 311'. - R/D Weatherford Wire Line Loggers. - M/U Bit, Bit Sub, 1 jt. DP, 5.94" OD Reamer, 137 jts DP, 7.75" OD Reamer, 4-1/2 DP & HWDP. To 6000', - Precautionary Wash and Ream f/ 6000' to 10,300', No Tight Spots. - Wash & Ream f/ 10300' to TD of 10670', No Excess tight spots. - Pump 40 bbl, 100 vis sweep & circulate hole clean. Work pipe 45', rotate 60 RPM, 265 (shakers clean) - Trip Out of Hole (to run casing) f/ 10670' to 8350 ' @ report time.

Daily Cost: \$0

Cumulative Cost: \$864,567

GMBU 14-14T-9-15H TOOH Date: 4/10/2011

Capstar #329 at 10670. 16 Days Since Spud - Trip out of hole w/ Packers Plus Reamer Assy. f/ 8350' to 4743'. - Service Rig. - Continue trip out of hole f/ 4743' to bit. L/D Packer Plus Reamer, Bit Sub, & Bit. - Pulled Wear Bushing, Dress top drive & slips to run 4-1/2" casing, clean up rig floor. - remaning 38' above KB) - P/U Crossover sub f/ 4-1/2" to 5-1/2", 5-1/2",17#,M80,LT&C casing, Packer Plus Anchor Packers - 5-1/2" Mechanical Port Collar, Trip in hole to 7170'. Casing became Stuck at 7170'. - Attempt to work casing free, unsuccessful rotation, no up / down movement, unable to establish - circulation, keeping pressure below

1,000 psi, to avoid setting packers. (5' of joint in hole, the - P/U & M/U 14 Packer Plus

Packers, 14 Frac port's & 78 joints, 4-1/2", 11.6#, N-80, LT&C casing.

Daily Cost: \$0

Cumulative Cost: \$884,164

GMBU 14-14T-9-15H

Fishing

Date: 4/11/2011

Capstar #329 at 10670, 17 Days Since Spud - angle drive in rig. Found ground up metal in the oil) prior to fishing operations starting. - Trip in hole (stay 2 joints off top of fish - and circulate. Mechanics will change out the right - unable to establish circulation w/ BJ pump truck, and keep pressure below 1000 psi to avoid setting - Packer Plus packers. Released BJ pump truck (truck on location) - Welder used gas detector to check rig floor area. Cut off 5-1/2" casing 5' above KB, and welded a - new 5-1/2" N-80, LTC by 5-1/2" SOW collar to casing. (let cool prior to R/U of wireline) - held safety meeting, R/U DCT wireline. Ran in hole w/ 1-11/16" Free Point, take free point & torque - readings. Found casing free in vertical hole, above KOP @ 5390'. w/ slight movement, and 8-10% - torque movement @ 5939'. POOH & R/D Free point tools. - M/U 3/8" shot rod w/ 200 grain string shot for back off. Run in hole and positioned shot over casing - collar at 5367'. (1 joint obove KOP) Fired shot, and back off casing. Run repeat strip of log, shows - a 3' seperation in pipe. POOH w/ back off shot tools. & R/D Wireline equip. - Trip out of hole & L/D 5367' +/- of Fish, Packers, Frac Ports, and Casing. Left in hole 4-1/2" - collar collar looking up w/ 1840.56' of Fish. - Move Drill Pipe, Fishing tools to rack, strap, O.D. & I.D. all tools. - M/U fishing Tools. 5" graple in over shot, xo, bumper sub, xo, jars, 12 HWDP, intensifer, DP to surf - Continue attempting to to work stuck casing free, unsuccessful rotating, no up or down movement,

Daily Cost: \$0

Cumulative Cost: \$916,089

GMBU 14-14T-9-15H

Fishing

Date: 4/12/2011

Capstar #329 at 10670. 18 Days Since Spud - Trip in hole w/ fishing BHA f/ 1314' to 5257'. Circulate @ 177 gpm, (110' off top of fish) - Slip & Cut 70' of Drilling Line. - Service Rig. - at 05:30 am Capstar O.K.ed jaring @ 250 and pulling to 300k. - Engage Fish with over shot, pull up to 175K and set off jars, pull up to 200k, and check for - movement. No Movement. - Jar on stuck casing, jars at 200k, pull up to 250k, and check for movement. No Movement to report. - Move Boiler to allow "chery picker" access to help mechanics change right angle drive on rig.

Daily Cost: \$0

Cumulative Cost: \$947,837

GMBU 14-14T-9-15H

Wait on Cement

Date: 4/13/2011

Capstar #329 at 10670. 19 Days Since Spud - Jar on Stuck Casing, setting Jars off @ 250K, pulling up to 300K. Broke Free, gained string weight - unknown chemical. Dump & Clean mud system. - Circulate bottoms up @ 200 gpm / 290 psi. (Held BOP Drill = 28 seconds) - Trip out of hole f/ top of fish @ 5367'. Recovered 1 joint of 4-1/2" casing (broken threads on pin - end) Leaving a 4-1/2" casing collar looking up, w/ new top of fish @ 5409.75' (pipe measurment) - Total Fish left in hole = 1797.81'. 6 packers, 6 frac ports & 31 joints of 4-1/2" casing - Lay Down all Slaugh fishing tools. - Service Rig. - Obtain Verbal Approval By: Mr. Robbin Hanson w/ BLM to lay a 500 len. Foot cement plug on top of - fish @ 15:05 hrs, 11-April-2011. from 5400' to 4900'. Newfield Eng. Will submit a sundary notice. - Trip in hole with open end 4-1/2" drill pipe to 1711'. Load out all 5-1/2" & 4-1/2" casing and haul - to Runners yard for cleaning & inspection. Circulate while strapping DP. - Trip in hole f/ 1711' to 5409' with open end drill pipe. - Circulate bottoms up @ 228 gpm, while R/U BJ cementers, and finish loading out all

Casing. HSM. - HSM, Pressure test to 2500 psi. Pump 10 bbl water, followed by 20.8 bbl / 118 sks, Class G w/ 0.5% - CD32, @ 17 ppg. Equalize plug w/ 3.5 bbl water and 67 bbl 9.6 ppg mud. Pulled 8 singles to 5122'. - Pump 10 bbl water, 20.8 bbl class G cement w/ 0.5% CD32 @ 17 ppg. Equalize w/ 3.5 bbl water & 63 bbl - 9.6 ppg mud. Pulled 12 singles to 4578' and Circulate DP clean. R/D BJ Cementers. (cement calculated - w/ 30% excess) CIP @ 01:00 am, 12-April-2011. (top of calculated plug to be 4719') - Pulled up to 4578' and circulate hole clean. - Trip out of hole f/ 4578'. to surface. Mud system is contaminated, not from cement, some - of 107K, from 105K/#.

Daily Cost: \$0

Cumulative Cost: \$1,289,210

GMBU 14-14T-9-15H

Time Drill off Cement Plug

Date: 4/14/2011

Capstar #329 at 4877. 20 Days Since Spud - Work Grouve / cut Trough for Kick Off,f/ 4797' - 4820'. - Time Drill @ 1" / 5 min f/ 4820' to 4826' w/ tool face @ 160 deg. Azi. 4826' to 4833', @ 1" / 3 min. - Time Drill f/ 4833' - 4852', @ 1" / 2 min. w/ 160 tool face. - Troughing tool face @ 60 deg. - Time Drill 4875' - 4877', 1" / 3 min, @ 60 deg. (95% Cement / 5% Shale) - Time Drill 4853' - 4855', 1" / 4 min, @ 60 deg. - Time Drill 4855' - 4857', 1" / 3 min, @ 60 deg. - Time Drill 4852' - 4853', 1" / 5 min, @ 60 deg.

Daily Cost: \$0

Cumulative Cost: \$1,446,765

GMBU 14-14T-9-15H

Time Drill off Cement Plug

Date: 4/15/2011

Capstar #329 at 5033. 21 Days Since Spud - Drill softer cement f/ 4877' to 4909'. Troughing f/ 4909' to 4933'. TFO 140. - Time Drill 1" per 5 min. f/ 4933' to 4935', TFO 140 (10% formation cuttings in sample by mud logger - Slide f/ 4935' to 5014'. TFO 140. (Cuttings show 98% cement) - Trip Out of Hole f/ 5014' to 4744' (6 stands). - Time Drill @ 1" / 5 min. f/ 5028' to 5033' (95% cement / 5% shale / tr % sandstone) - nice, no hang up's on down reaming. - Slide f/ 5014' - 5028'. TFO 140. - Troughing f/ 5010' to 5028' - Ream each joint 2 times w/ 422 gpm / 195 Total RPM's f/ 4744' to 5014'. No tight spots, reamed very

Daily Cost: \$0

Cumulative Cost: \$1,469,856

GMBU 14-14T-9-15H

Time Drill off Cement Plug

Date: 4/16/2011

Capstar #329 at 5062. 22 Days Since Spud - Time Drill @ 1" / 5 min. f/ 5033' to 5037' Time Drill @ 1" / 4 min. f/ 5037' to 5045' TFO 145. - with 422 gpm, 135 bit RPM, 8-12 wob, 30 diff. psi, 1564 spp. - Pump slug, Trip Out of Hole f/ 5045' to BHA. - Pulled Rotating Head Rubber. - L/D Weatherford Directional Tools. (motor shows wear on back of motor, bit excelent) - Repair / Replace Swivel Lock on Top Drive. - Adjust New Hunting Motor to 2.12 deg. / 7 foot bit to bend. - Scribe Motor & Monel. - Trip in Hole f/ BHA to 1927'. - Installed Rotating Head Rubber. - Trip in hole f/ 1927' to 5024'. (higher bend motor had no effect on trip in hole) - Work Trough f/ 5024' to 5044'. TFO 150. - Time Drill f/ 5045' - 5047' @ 1" / 5 min. TFO 150. (5% formation in cuttings sample) - Time Drill f/ 5049' - 5050', @ 1" / 4 min. TFO 150. (20% formation in cuttings sample) - Time Drill f/ 5050' - 5062' @ 1" / 2 min. TFO 150. (30 % formation in cuttings sample)

Daily Cost: \$0

Cumulative Cost: \$1,512,544

Build 7-7/8" Curve

GMBU 14-14T-9-15H

Date: 4/17/2011

Capstar #329 at 5217. 23 Days Since Spud - Slide f/ 5158' - 5217', 16.8 fph, 40 wob, 422 gpm, 135 Brpm's, 1620 psi, 140 diff. TFO 127, - Trip in hole f/ 100' to 5158'. No tight spots, no fill on bottom. - P/U new 1.83 Weatherford motor, M/U Bit #6 and scribe MWD collar. - Trip out of hole f/ 5158' to bit #6. (bit looks great, no sign of dammage on motor) - Mix & pump slug. - Time Drill f/ 5090' to 5135', @ 1'' / 30 sec. TFO 150 (80% formation) - Time Drill f/ 5140' - 5158', @ 1'' / min. TFO 150 (100% Formation) Motor pressured up and had - Slide f/ 5135' - 5140', TFO 150. - Time Drill f/ 5062' - 5088' @ 1'' / 1 min. TFO 150 (60% formation) - Work on mud pump & mud system. - Time Drill f/ 5088' - 5090', @ 1'' / 1 min. TFO 150. (70% formation) - severe vibration. Decision was made to TOH, P/U curve assembly.

Daily Cost: \$0

Cumulative Cost: \$1,542,074

GMBU 14-14T-9-15H

Build 7-7/8" Curve

Date: 4/18/2011

Capstar #329 at 5633. 24 Days Since Spud - Slide f/ 5613' - 5633', 20 ROP, 40 WOB, 422 GPM, 135 RPM, 1920 PSI, 225 DIFF, TFO 0. - Rotate f/ 5597' - 5613', 16 ROP, 30 WOB, 422 GPM, 35 RPM, 1900 PSI, 240 DIFF, - Slide f/ 5577' - 5597', 13.3 ROP, 40 WOB, 422 GPM, 135 RPM, 1915 PSI, 225 DIFF. TFO 0. - Rotate f/ 5567' - 5577', 20 ROP, 30 WOB, 40 RPM, 422 GPM, 1920 PSI, 240 DIFF. - Slide f/ 5540' - 5567', 13.5 ROP, 45 WOB, 135 RPM, 422 GPM, 1900 PSI, 210 DIFF. TFO 0. - Rotate f/ 5528' - 5540', 24 ROP, WOB, 30 RPM, 422 GPM, 1900 PSI, 133 DIFF - Slide f/ 5480' - 5500', 20 ROP, 40 WOB, 135 RPM, 422 GPM, 1900 PSI, 265 DIFF. TFO 20 - Rotate f/ 5500' - 5510', 20 ROP, 40 WOB, 45 RPM, 422 GPM, 1800 PSI, 268 DIFF. - Slide f/ 5510' - 5528',18 ROP, 40 WOB,135 RPM, 422 GPM, 1900 PSI,318 DIFF. TFO 0 Rotate f/ 5470' - 5480', 10 ROP, 30 WOB,33 RPM, 422 GPM,1850 PSI, 312 DIFF. - Slide f/ 5450' - 5470', 20 ROP, 35 WOB, 135 RPM, 422 GPM, 1825 PSI TFO 90 R. - Rotate f/ 5394' -5450', 18.6 ROP, 35 WOB, 135 RPM, 422 GPM, 1875 PSI, - Slide f/ 5386' - 5394', 16 ROP, 35 WOB, 135 RPM, 422 GPM, 1758 PSI. TFO 90R. - Rotate f/ 5350' - 5386', 24 ROP, 30 WOB, 35 RPM, 422 GPM, 1695 PSI, - Slide f/ 5338' - 5350', 24 ROP, 35 WOB, 135 RPM, 422 GPM, 1738 PSI, 264 DIFF. TFO 90R. - Rig Service. - Drill, Rotate f/ 5293' - 5338', 18 ROP, 30 WOB, 35 RPM, 422 GPM, 1660 PSI, 185 DIFF, 170 T.RPM. - Wipe & Ream hole f/ 5293' - 5205', w/ 170 total RPM, 422 GPM, to clean up hole & drop angle. - Drill,, Rotate f/ 5217' - 5293', 19' ROP. 30 WOB, 35 RPM, 422 GPM, 1663 PSI, 145 DIFF, 170 RPM's

Daily Cost: \$0

Cumulative Cost: \$1,571,604

GMBU 14-14T-9-15H

Build 7-7/8" Curve

Date: 4/19/2011

Capstar #329 at 5948. 25 Days Since Spud - Slide f/ 5825' - 5845', 10 ROP, 35 WOB, 135 RPM, 422 GPM, 2030 PSI, 240 DIFF, TFO 0. - Rotate f/ 5815' - 5825', 20 ROP, 30 WOB, 30 RPM, 422 GPM, 2050 PSI, 263 DIFF. - Slide f/ 5794' - 5815', 10.5 ROP, 40 WOB, 135 RPM, 422 GPM, 2100 PSI, 260 DIFF, TFO 0. - Rotate f/ 5785' - 5794', 18 ROP, 30 WOB, 30 RPM, 422 GPM, 2240 PSI, 400 DIFF, - Slide f/ 5702' - 5785', 13.8 ROP, 40 WOB, 135 RPM, 422 GPM, 2150 PSI, 375 DIFF. TFO 0. - Rotate f/ 5695' - 5702', 7 ROP, 40 WOB, 30 RPM, 422 GPM, 2060 PSI, 427 DIFF. - Rotate f/ 5845' - 5867', 14.6 ROP, 36 WOB, 50 RPM, 422 GPM, 2135 PSI, 345 DIFF. - Rotate f/ 5668' - 5673', 16 ROP, 30 WOB, 30 RPM, 422 GPM, 2060 PSI, 365 DIFF. - Slide f/ 5643' - 5668', 16.6 ROP, 40 WOB, 135 RPM, 422 GPM, 2030 PSI, 385 DIFF, TFO 0 - Rotate f/ 5633' - 5643', 10 ROP, 40 WOB, 135 RPM, 422 GPM, 1940 PSI, 385 DIFF. - Slide f/ 5930' - 5948', 18 ROP. 40 WOB, 135 RPM, 422 GPM, 2030 PSI, 300 DIFF, TFO 0. - Rotate f/ 5887' - 5930', 14.3 ROP. 30 WOB, 45 RPM, 422 GPM, 2140 PSI, 330 DIFF. - Slide f/ 5867' - 5887', 10 ROP, 35 WOB, 135 RPM, 422 GPM, 2020 PSI, 290 DIFF, TFO 0 - Slide f/ 5673' - 5695',14.6 ROP,40 WOB, 135 RPM, 422 GPM, 2100 PSI, 470 DIFF. TFO 0. Daily Cost: \$0

Cumulative Cost: \$1,603,947

GMBU 14-14T-9-15H

Build 7-7/8" Curve

Date: 4/20/2011

Capstar #329 at 6065. 26 Days Since Spud - Circulate, & Service Rig. - Pump 40 bbl, 90 vis sweep, Circulate hole clean, Reciprocate / rotate while circulating. - Trip out of hole f/ 5974' to BHA. - Remove Rotating Head Rubber. - Break & L/D MWD, Monel, Motor, & Bit #6. (closed blind rams) - M/U Bit #7, 1.85 deg. Bent housing Motor, Monel & Scribe in hole. Surface Test MWD. - Installed Rotating Head Rubber. - Trip in hole to 810' - 5958'. No tight Spots, No Fill on Bottom. - Slide f/ 5958' - 6027', 23 FPH, 18 WOB, 135 RPM, 422 GPM, 2100 PSI, 182 DIFF, TFO o. - Blew Pop's on pumps, no circulation, Work stuck pipe free @ 225k, (at connection) - Slide f/ 6047' - 6065', 18 FPH, 30 WOB, 138 RPM, 430 GPM, 1950 PSI, 285 DIFF, TFO o. - Pump 40 bbl / 100 vis sweep. - Slide f/ 6027' - 6047', 13.3 FPH, 35 WOB, 135 RPM, 422 GPM, 2000 PSI, 125 DIFF, TFO o. - Slide f/ 5948' - 5974', 26 ROP, 30 WOB, 135 RPM, 422 GPM, 2080 PSI, 310 DIFF, TFO 0. - Pulled 2 joints off bottom f/ 6027' - 5937', Pump 2 - 40 bbl / 100 vis sweeps, circulate, wash & - ream back to bottom f/ 5937' - 6027'.

Daily Cost: \$0

Cumulative Cost: \$1,646,926

GMBU 14-14T-9-15H

Build 7-7/8" Curve

Date: 4/21/2011

Capstar #329 at 6337. 27 Days Since Spud - Slide f/ 6065' - 6077', 12' fph, 17 wob, 135 rpm, 410 gpm, 1700 psi, 130 Diff, TFO 20L. - Circulate bottoms up, Build & pump pill. - Trip out of hole f/ 6077' - BHA, Tight spots @ 5812', 5460', 5214' (wipe through tight spots) - Pulled Rotating Head Rubber. - Break & L/D Directional Tools. - L/D Bit #7, M/U Bit #8, Adjust motor up f/ 1.85 to 2.0 deg's. M/U & Scribe in hole. - Installed Rotating Head Rubber. - Trip in hole to 491' & Test MWD, Trip in Hole f/ 491' - 5987', Precautionary W & R f/ 5987' - 6077'. - No tight Spots on TIH, No Fill on Bottom. - Slide f/ 6077' - 6337', 21.6' fph, 45 wob, 136 rpm, 423 gpm, 1700 psi, 120 Diff, TFO 20

Daily Cost: \$0

Cumulative Cost: \$1,675,490

GMBU 14-14T-9-15H

TIH

Date: 4/22/2011

Capstar #329 at 6355. 28 Days Since Spud - TOOH to pick up lateral assembly - Circ¿pump 40 bbl high vis sweep and circ hole clean - Lay down build / curve assembly - Pull wear bushing - Pressure test BOP's / Test Blind & Pipe rams to 250 low & 2000 high - Test choke line, Choke manifold, Lower Kelly cock & safety valve to 250 low 2000 high - Test annular to 250 low and 1500 high / all test good - Install wear bushing in wellhead - PU / MU lateral bha, scribe tools, & surface test MWD - Rig repair / change out pod in # 1 mud pump - TIH / load racks and SLM pipe - Slip and cut drilling line 120' - TIH / load racks and SLM pipe - Build curve 6337'-6355',(18') @12' fph, 45 wob, 136 rpm, 423 gpm, 1700 psi - Pull rot head rubber

Daily Cost: \$0

Cumulative Cost: \$1,732,728

GMBU 14-14T-9-15H

TIH

Date: 4/23/2011

Capstar #329 at 6643. 29 Days Since Spud - TIH / load racks and SLM pipe - Rig service / adjust brakes - Rig Repair / adjust brake linkage - Troublshoot EM tools - TIH - Troubleshoot EM tool - Circ hole clean and pump slug - TOOH for EM MWD failure - Work Directional bha / c/o EM MWD, check motor & bit, & scribe tools - Drill 6 1/8" lateral 6355' - 6643' (288') @ 36 fph w/ 284gpm 130 rpm mm + 60=190 w/ 1700 psi

Daily Cost: \$0

Cumulative Cost: \$1,775,790

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/24/2011

Capstar #329 at 7914. 30 Days Since Spud - Rewipe 6000'-6045' for gamma log - Drill 6 1/8" lateral 6643' - 7008' (365') @ 61 fph w/ 284gpm 130 rpm mm + 40=170 w/ 1785 psi - with 50k over P/U wieght engage rotary and pipe pulled freely, reduce MW to 9.6-9.7 - Drill 6 1/8" lateral 7008' - 7914' (906') @ 53 fph w/ 284gpm 130 rpm mm + 40=170 w/ 1800 psi - 7420' attempt to slide, slide >1' attempt to work pipe to reset toolface & pipe pulled tight work - Rig service

Daily Cost: \$0

Cumulative Cost: \$1,806,213

GMBU 14-14T-9-15H

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Date: 4/25/2011

Capstar #329 at 8708. 31 Days Since Spud - Drill 6 1/8" lateral 7914' - 8685' (771') @ 67 fph w/ 284gpm 130 rpm mm + 40=170 w/ 1800 psi - Rig Service - Circ up sample to verify location within basal carbonate - Drill 6 1/8" lateral 8685' - 8708' (23') @ 23 fph w/ 284gpm 130 rpm mm + 40=170 w/ 1800 psi - Pump 40 bbl 125vis sweep & circulate to clean hole - TOOH / after 1st 3 jts pulled had excess drag on straight pull of 50+k work pipe out of the hole - Circulate / Reciprocate and raise FV from 50 - 60 while maintaining 9.9 ppg MW - circulate hole while raising weight to 9.9 ppg and vis to 50 / circ up +/- 5 bbls of dime to silver - dollar size slivers and chunks of undrilled cuttings - Backream out of the hole to 7050' with excess torque and drag close to the same height on every jt - while still circulating up slivers and chunks with amounts less than previous circ - Pull 3 jts with drag increasing on every jt - with reciprocation and rotary to 7720'

Daily Cost: \$0

Cumulative Cost: \$1,846,408

GMBU 14-14T-9-15H

Drill 6 1/8" hole with mud

Date: 4/26/2011

Capstar #329 at 8901. 32 Days Since Spud - TOOH - Cut & slip drilling line - TOOH c/o motor, bit, & scribe tools - TIH pick up agitator / load racks and SLM pipe - Drill 6 1/8" lateral 8708' - 8901' (193') @ 35 fph w/ 284gpm 130 rpm mm + 40=170 w/ 2900 psi - Circulate and Reciprocate & strap pipe - Wash in the hole from 7800' - 8708' - Circ bottoms up returning small amount of uncut shale - Wash in the hole from 6355' - 7800'

Daily Cost: \$0

Cumulative Cost: \$1,877,077

GMBU 14-14T-9-15H

Drill 6 1/8" lateral

Date: 4/27/2011

Capstar #329 at 10163. 33 Days Since Spud - Drill 6 1/8" lateral 8901' - 9392' (491') @ 58 fph w/ 284gpm 130 rpm mm + 60 = 190 rpm w/ 2900psi - Rig service - Drill 6 1/8" lateral 9730' - 10163' (433') @ 62 fph w/ 284gpm 130 rpm mm + 55 = 185 rpm w/ 3000psi - Rig repair / work on mud pumps - Drill 6 1/8" lateral 9392' - 9730' (338') @ 45 fph w/ 284gpm 130 rpm mm + 55 = 185 rpm w/ 2950psi

Daily Cost: \$0

Cumulative Cost: \$1,926,693

Date: 4/28/2011

Capstar #329 at 10650. 34 Days Since Spud - Drill 6 1/8" lateral 10163' - 10650' (487') @ 49 fph w/ 284gpm 130 rpm mm + 55 = 185 rpm w/ 3000psi - Laydown directional BHA - TOOH for reamer run / Pulled tight and work thru from 8576'-8100' with torque and reciprocation / - Circ hole clean & pump slug

Daily Cost: \$0

Cumulative Cost: \$1,988,624

GMBU 14-14T-9-15H

TOOH

Date: 4/29/2011

Capstar #329 at 10650. 35 Days Since Spud - Pick up reamer assembly and TIH to 6355' - Hold S/M over pinch points - TOOH above 6355' to clean out 7 7/8" section - Ream from 8000'-8750' @ 200-250 fph / Ream 10100'-10650' @ 200-250 fph - Pull 5 jts w/out pump and pump slug - Wash & Ream from 6330'-10650'

Daily Cost: \$0

Cumulative Cost: \$2,011,098

GMBU 14-14T-9-15H

Running casing

Date: 4/30/2011

Capstar #329 at 10650. 36 Days Since Spud - TOOH to 7 7/8" section - Circ 7 7/8" section clean w/ 420 gpm - Trip / slide in the hole to 9000' / wash in the hole 9000'-10650' - Circ and spot Lubra beads in lateral and curve sections - Run Packers plus assembl, 4 1/2" & 5 1/2" production csg - Hold PJSM / Rig up HES logging and run 6 arm caliper log / logs went to xxxx' & rig down HES - Pull wear bushing - Remove kelly hose - TOOH to run caliper log / lay down reamer's

Daily Cost: \$0

Cumulative Cost: \$2,037,186

GMBU 14-14T-9-15H

circulating

Date: 5/1/2011

Capstar #329 at 10650. 37 Days Since Spud - Unable to move downhole from 8450' / Circ and work joint out from 8450' - 8444', LD 1 jt of csg - Circ and work joint while still returning oily, gritty, substance - to 4 bpm and circ up oil with lubrabeads that have become soft and gritty and bonded with oil - while increasing flowrate @ 1/4 bpm increments, Work and LD 2 jts of csg, Work and increase flowrate - Unable to move downhole from 8430' (pipe still moving freely uphole) Break circ and work pipe uphole - Run Packers plus assembl, 4 1/2" & 5 1/2" production csg to 8430' - silt and gritt w/ lubra beads - f/ 7405' - 7363' increasing flowrate in increments to 3.5 bpm / returning excess amounts of oily - to 1.5 bpm work entire joint uphole (unable to move downhole), LD 1 jt of 5 1/2" csg, Work casing - Break circulation and work pipe uphole while increasing flowrate in 1/4 bpm increments increase rate - Work last 5 jts down with excessive drag @ 7450' pipe not moving downhole (moving uphole freely) - Run Packers plus assembl, 4 1/2" & 5 1/2" production csg - Hole seeping @ +/- 4 bph / build 100 bbls volume in active pits - Run Packers plus assembl, 4 1/2" & 5 1/2" production csg to 8450'

Daily Cost: \$0

Cumulative Cost: \$2,058,443

GMBU 14-14T-9-15H

TIH

Date: 5/2/2011

Capstar #329 at 10650. 38 Days Since Spud - clean up with little to no oil or silt returning across shaker - TIH - Rig service - TIH - Install wear bushing, switch boom, prep equipt for DP, P/U & make up bit & reamer - with fluid 2 sides of element were swelled to 6" - packer

wich was +/-500' from end had gouge in the bottom element appears to have been inpregnated - POOH with csg / inspecting csg & packers plus assembly while coming out / found that 2nd rockseal - Run csg / run additional 15' of csg in hole with no more movement downhole - diesel pill brought back some thick oily residue - Pump 10bbl diesel pill starting rate of 2.5 bpm and increasing rate as pressure decreased up to 3bpm - continue to raise pump rate @ 1/4 bpm increments w/ 680 psi @ 2.5 bpm - rate with multiple pressure spikes that kicked out pump truck / work 1 jt out of the hole and - Bring on pump truck and break circ 8550' with 1 bpm w/ kick outs set @ 900 psi attempt to increase - downhole - Run 3 additional jts of 5 1/2" csg in the hole working last 2 jts multiple times / csg stopped - Circulate on csg increasing rate w/ pump truck by 1/4 bbl increments up to 4 bpm / hole appeared to

Daily Cost: \$0

Cumulative Cost: \$2,114,242

GMBU 14-14T-9-15H

Circulate & Condition Hole

Date: 5/3/2011

Capstar #329 at 10650. 39 Days Since Spud - Wash / Ream from 6355'-10,650'¿return small amount of uncut shale, gritty lubra beads with oily - residue / spend time reaming thru increase torque areas - Circ / Reciprocate clean for short - POOH w/ short trip to 7000' - Slide in the hole from 7000' - 10470' / rot & circ in hole from 10470' - 10650' - Circulate / Reciprocate for csg - TIH w/ reamer assembly

Daily Cost: \$0

Date: 5/4/2011

Cumulative Cost: \$2,147,512

GMBU 14-14T-9-15H

Rigging down

Capstar #329 at 10650. 41 Days Since Spud - Run csg and land in head @ 10630' - Rig up to and run weatherford production system, 4 1/2" & 5 1/2" production csg to 10,137' - TOOH, lay down reamers, pull wear bushing, and prep to run production csg - Slip and cut drilling line - TOOH to run prod csg - Circulate / Reciprocate for csg - Slip and cut drilling line - Spot NXS Lube in lateral & pump slug - Rig down, perform repairs & PM on rig equipt, move some equipt to new location, and inspect BHA. - Clean pits Release Rig @ 1800 hrs on 05/04/11 - Nipple down & install cap - Hold PJSM w/ BJ and pump 285 bbls of FW to cover lateral packers - Run csg and land in head @ 10630' - Rig up to and run weatherford production system, 4 1/2" & 5 1/2" production csg to 10,137' - Hold PJSM w/ BJ and pump 285 bbls of FW to cover lateral packers - Nipple down & install cap - Clean pits Release Rig @ 1800 hrs on 05/04/11 - Rig down, perform repairs & PM on rig equipt, move some equipt to new location, and inspect BHA. - Circulate / Reciprocate for csg - TOOH, lay down reamers, pull wear bushing, and prep

Daily Cost: \$0

Cumulative Cost: \$2,707,106

Pertinent Files: Go to File List

to run production csg - TOOH to run prod csg - Spot NXS Lube in lateral & pump slug

NEWFIELD GMB 14-14T-9-15H **Wellbore Diagram** Wellhead ROCKY MOUNTAINS Surface Location: NE/NW, Sec 16, T9S R16E County/State: Greater Monument Butte, Duchesne County, Utah API: 43-013-50441 Elevation: 5847' GL + 12' KB Grade Conn. Casing Detail Size LTC 311 Surface 8-5/8 24# J-55 8-5/8" Casing Shoe Surface 5-1/2" 17# M-80 LTC 6.300 Production Port Collar 10,630 4.000 3.875 0.0155 6-1/8 11.6# P-110 LTC 8,510 Production 4-1/2' to Surface burst & collapse values are book, no additional safety factors have been applied **Tubing Detail** Wt. Grade Conn. Length Top Bottom Joints Size TBG DETAIL: bullplug, 3 jts tubing, 21' cavins Desander, 2-7/8" sub, 1 jt 2-7/8" tubing, SN, 1 jt 2-7/8" tubing, TAC, and remaining 185 jts of 2-7/8" tubing. TA @ 5,806'. SN @ NOTE on Tubing Anchor: TA (shortened inner springs & beveled outer springs--4.625" OD) Rod Detail Bottom Size Grade Count Length WELLBORE FLUIDS Lateral section fluid= +-8.4 ppg "clean" fresh water Pump and Rod Detail: WFD MacGyver 3 pump with spring loaded cages, 2-1/2"x1-3/4" x22'x25'x29' RHBC pump x , on/off tool, 4'x7/8"guided Uphole annulus has 10ppg mudweight prior to cementing rod sub, 5789'x SE 4 corod, 4,4,6,6' x 7/8" pony subs, 1 1/2" x 26' polished rod NOTE on Pump: with CoRod, must have Clutch (on/off tool) installed. Proposed Frac Weatherford 16 Stage Zone Select frac system Prop Vol Total Clean Vol Data Prop type/ size (lbs) **Bottom** (bbls) float collar, and casing shoe below this Fraxis swell packer, total intallation at 10,630'. And Open Hole TMD = 10,650 OH swell packer 1 Ball Action (AP) 1,892 Ball OD (in.) Seat ID (in.) Actual Vol. (bbf) Difference (bbl) 10,615 Stage 1 10.470 Toe Sleeves: 10.551 OH swell packer 2 10,458 100 mesh sand 29,646 2,798 10,470 leatherford OH Fraxis water swell packer Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl 30/50 mesh sand Stage 2 10,208 10,458 FracPort 2: 10,329 209.35 10,196 10,208 100 mesh sand Ball OD (in.) Stage 3 9,914 10,196 FracPort 3: 205.38 0.00 10,072 2,235 OH swell packer 4 9.944 9,956 leatherford OH Fraxis water swell packet 100 mesh sand WFD port Collar Ball OD (in.) Vol. to Seat (bbl Stage 4 9.663 9 944 FracPort 4: 9,818 1.625 1.530 201.45 0.00 9.663 100 mesh sand OH swell packer ! 9,651 leatherford OH Fraxis water swell packet Vol. to Seat (bbl Actual Vol. (bbl) Difference (bbl) Ball Action (AP) 30/50 mesh sand 28,619 Ball OD (in.) Stage 5 9.411 9,651 FracPort 5: KOP 9,526 1.750 196.93 9.399 9,411 100 mesh sand 30/50 mesh sand OH swell packer 6 Veatherford OH Fraxis water swell packer Ball CD (in.) Vol. to Seat (bbl Actual Vol. (bbl) Difference (bbl) Seat ID (in.) 5,450 Stage 6 9,399 FracPort 6: 9.118 9,274 1.875 1.770 193.03 0.00 9,106 9.118 eatherford OH Fraxis water swell packer
Depth Ball OD (in.) OH swell packet 100 mesh sand 30/50 mesh sand Actual Vol. (bbl) Difference (bbl) Ball Action (AP) Seat ID (in.) Vol. to Seat (bbl 9,106 Stage 7 8,864 8,980 ACP packer 2.000 100 mesh sand 8,852 8,864 OH swell packer 8 Difference (bbl) Ball Action (△P) 28,279 Depth 8,729 Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl Actual Vol. (bbl) 30/50 mesh sand Stage 8 8,852 FracPort 8: 8,575 184.59 2.125 2,449 8,575 100 mesh sand Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl Difference (bbl) 30/50 mesh sand Stage 9 8,284 8,563 FracPort 9 8,440 180.12 1,250 8,272 8,284 leatherford OH Fraxis water swell pack 100 mesh sand Ball OD (in.) Vol. to Seat (bbl Difference (bbl) Ball Action (AP Seat ID (in.) 30/50 mesh sand Depth Stage 10 8.030 8.272 FracPort 10: 8,147 175.58 0.00 100 mesh sand 8,018 8,030 OH swell packer 11 Veatherford OH Fraxis water swell packe Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl Actual Vol. (bbl) Difference (bbl) Ball Action (AP) 30/50 mesh sand 29,857 Stage 11 7.742 8,018 FracPort 11: 7.730 100 mesh sand 7.742 OH swell packer 12 Weatherford OH Fraxis water swell packer Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl Actual Vol. (bbl) Ball Action (AP) 30/50 mesh sand 28,111 Stage 12 7.449 7,730 FracPort 12: 167.20 7.605 2.625 7,449 OH swell packer 1: Weatherford OH Fraxis water swell packet Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl Ball Action (AP 30/50 mesh sand Depth 7,313 7,437 Stage 13 7,192 OH swell packer 14 7,180 7,192 Weatherford OH Fraxis water swell packet 100 mesh sand 31,142 2,117 Ball OD (in.) Seat ID (in.) Vol. to Seat (bbl 30/50 mesh sand Stage 14 6,894 7,180 FracPort 14: 158.70 0.00 Veatherford OH Fraxis water swell packet 100 mesh sand 2,985 OH swell packer 15 6,882 6,894 Difference (bbl) 30/50 mesh sand Stage 15 6,633 6.882 FracPort 15: 154.07 52,784 100 mesh sand OH swell packer 16 6,621 6,633 Weatherford OH Fraxis water swell packet Ball OD (in.) Vol. to Seat (bbl Actual Vol. (bbl) Difference (bbl) 30/50 mesh sand 61,365 Stage 16 6 352 6.621 FracPort 16: 6,485 3.125 149.86 Total Clean Weatherford OH Fraxis water swell pack OH swell packer 17 ACP packer 5,427 5,432 Weatherford Annulus Casing Packer (ACP). Hydaulicaly set at 2,700psi (bbl) Weatherford Annulus Casing Packer (ACP), Hydaulicaly set at 2,700ps ACP packer 5,417 5,422 Sand Total 100 mesh sand 478.495 Lat Length Total Stim. Latera 456.545 4.263 935,040 30/50 mesh sand 266 *between packers Avg. Stage Length 5.5"x4 5X XO 6,300 3 13 12 11 10 7 14 16 15